



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 40] नई दिल्ली, शनिवार, अक्टूबर 2, 1999 (आश्विन 10, 1921)
No. 40] NEW DELHI, SATURDAY, OCTOBER 2, 1999 (ASVINA 10, 1921)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 2nd October 1999

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Telegraphic address "PATENTOFIC"
Phone No. 490 1495
Fax No. 044 490 1492

Patent Office, (Head Office)
"NIZAM PALACE", 2nd M.S.O.
Building, 5th, 6th and 7th
Floors, 234/4, Acharya Jagadish
Bose Road, Calcutta-700 020.

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कलकत्ता, दिनांक 2 अक्टूबर 1999

पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा मुम्बई, दिल्ली एवं चेन्नई में इसके शाखा कार्यालय हैं, जिनके प्राथमिक क्षेत्राधिकार जौन के आधार पर निम्न रूप में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोंडी इस्टेट,
तीसरा तल, लॉकर परल (प.),
मुम्बई-400013 ।

गुजरात, महाराष्ट्र, मध्य प्रदेश
तथा गोआ राज्य क्षेत्र एवं मंच
शासित क्षेत्र, वमन तथा दीब एवं
दादर और नगर हवेली ।

तार पता - "पेटेंटॉफिक"

फोन 4825092 फैक्स : 022 4950 622

पेटेंट कार्यालय शाखा,
एकक सं. 401 से 405, तीसरा तल,
नगरपालिका बाजार भवन,
सरस्वती मार्ग, कराल बाग,
नई दिल्ली-110 005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू
तथा कश्मीर, पंजाब, राजस्थान,
उत्तर प्रदेश तथा दिल्ली राज्य
क्षेत्रों एवं मंच शासित क्षेत्र चंडीगढ़ ।

तार पता - "पेटेंटॉफिक"

फोन : 578 2532 फैक्स : 011 576 6204

पेटेंट कार्यालय शाखा,

विंग "सी" (सी-4, ए),

तीसरा तल, राजाजी भवन,

बसन्त नगर, चेन्नई-600090 ।

आन्ध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु
तथा पाण्डिचेरी राज्य क्षेत्र एवं
मंच शासित क्षेत्र, लक्षद्वीप, मिनिक्काय
तथा एमिनिदिदि द्वीप ।

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फोन : 490 1495 फैक्स : 044 490 1492

पेटेंट कार्यालय (प्रधान कार्यालय),
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय
भवन, 5, 6 तथा 7वां तल,
224/4, आचार्य जगन्मोहन बोस मार्ग,
कलकत्ता-700 020 ।

प्रधान का अद्वितीय क्षेत्र ।

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फोन : 247 4401 फैक्स : 033 247 3851

पेटेंट कार्यालय का कलकत्ता स्थित प्रधान कार्यालय पेटेंट सह-
योग संधि के अधीन अन्तरराष्ट्रीय आवेदनों के लिए रिसीवींग
कार्यालय, इलेक्ट्रॉनिक कार्यालय व फेसिलिटेटिंग कार्यालय है ।

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम,
1999 अथवा पेटेंट (संशोधन) नियम, 1972 द्वारा अपीकृत
सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज या कोई
फीस पेटेंट कार्यालय के केवल समुचित कार्यालय में ही प्रहण
किये जायेंगे ।

शुल्क : शुल्कों की अदायगी या तो नकद की जाएगी अथवा
जहां उपयुक्त कार्यालय अवस्थित है, उस स्थान में अनुसूचित
बैंक से नियंत्रक को गतान योग्य बैंक ड्राफ्ट अथवा बैंक द्वारा
की जा सकती है ।

APPLICATION FOR THE PATENT FILLED AT THE
HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE
ROAD, CALCUTTA-700 020

The dated shown in the crecent bracket are the dated
claimed under section 135, under Patent Act, 1970.

06-08-1999

693/Cal/99. Samsung Electronics Co. Ltd., "Channel en-
coding/decoding in communication system",
(Convention No. 32471/1998 on 6-8-98 in
Korea).

694/Cal/99. Samsung Electronics Co. Ltd., "Apparatus and
method of linearizing a power amplifier in a
mobile radio communication system", (Con-
vention No. 32029/1998 on 6-8-98 in Korea).

695/Cal/99. Eaton Corporation, "Method/system for con-
trolling upshifting in an automated mechanical
transmission system", (Convention No. 145, 316
on 31-8-98 in USA).

09-08-1999

696/Cal/99. GE Yokogawa Medical Systems Ltd., "Image
display method and ultrasonic diagnostic appa-
ratus", (Convention No. 10-25155 on 4-9-98 in
Japan).

697/Cal/99. McNeil-PPC, Inc., "Preparation of sterol and
stanol esters", (Convention No. 09/139460
on 25-8-98; 09/211978 on 15-12-98 and 09/336773
on 21-6-99 in USA).

10-08-1999

698/Cal/99. Asta Medica Aktiengesellschaft, "Novel speci-
fic immunophilin ligands as antiasthmatics and
immunosuppressants", (Convention No. 19616509.1
on 25-4-96 in Germany).

699/Cal/99. Asta Medica Aktiengesellschaft, "Novel
pyrido (3, 2-e) pyrazinones with anti asthmatic
action and process for their manufacture".
(Convention No. 19510965.1 on 24-3-95 in Ger-
many).

700/Cal/99. Asta Medica Aktiengesellschaft, "N-Substituted
indole-3-glyoxylamides having anti-asthmatic, anti-
allergic and immunosuppressant/immunomodulat-
ing action", (Convention No. 19636150.8 on
6-9-96 in Germany).

701/Cal/99. Siemens Aktiengesellschaft, "Semi-conductor
chip with surface covering", (Convention No.
98115621.9 on 19-8-98 in EPO).

11-08-1999

- 702/Cal/99. Pailung Machinery Mill Co. Ltd., "Computer-controlled needle selection structure for a circular knitting machine".
- 703/Cal/99. The Wesman Engineering Co. Ltd., "Rotary melting furnace with twin-bed combustion system".
- 704/Cal/99. Roy Sunanda; Roy Manika, "A hollow brick/block for building and like construction and a system of wall/building with improved thermal insulation obtained thereof".

ALTERATION OF DATES UNDER SECTION 16

- 183178
(1068/Cal/97) Antedated to 16th April, 1993.
- 183179
(2122/Cal/97) Antedated to 14th June, 1994.

ALTERATION OF DATE

- 183185 filed on 1st May, 91.
346/Del/88 Ante-dated to 21-04-88.

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of a patent on any of the applications concerned, may, at any time within four months from the date of this issue or within such further period not exceeding one month if applied for on Form 4 prescribed under the Patent (Amendment) Rules, 1999 before the expiry of the said period of four months, give notice to the Controller of Patents at the appropriate office on the prescribed Form 7 of such opposition. The written statement of opposition should be filed in duplicate alongwith evidence, if any, with said notice or within sixty days of its date as prescribed in Rule 36 as amended by the Patents (Amendment) Rules, 1999.

The Classification given below in respect of each specification are according to Indian Classification and International Classification Systems.

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स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि संबंध आवेदनों में से किसी पर पेटेंट अनुदान के विरोध करने के इच्छुक व्यक्ति, इसके निर्माण की तिथि से चार (4) महीने या अग्रिम ऐसी अवधि जो उक्त चार (4) महीने की अवधि की समाप्ति के पूर्व, पेटेंट (संशोधन) नियम, 1999 के तहत विहित प्ररूप 4 पर अगर आवेदित हो, एक महीने की अवधि से अधिक न हो, के भीतर कभी भी निबंधक एकत्र को उपयुक्त कार्यालय में ऐसे विरोध की सूचना निहित प्ररूप 7 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य के प्रतियों में साथ के साथ, यदि कोई हो, उक्त सूचना के साथ या पेटेंट (संशोधन) नियम, 1999 द्वारा संशोधित नियम 36

के तहत यथाविहित उक्त सूचना के तिथि से 60 दिन के भीतर फाइल कर दिये जाने चाहिए।

प्रत्येक विनिर्देश के संबंध में नीचे दिये वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर्राष्ट्रीय वर्गीकरण के अन्वय है (i)

विनिर्देश तथा चित्र आरेख, यदि कोई हो, की अधिकतम प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित 30/- रुपये प्रति की अवामगी पर की जा सकती है।

ऐसी परिस्थिति में जब विनिर्देश की अधिकतम प्रतियाँ उपलब्ध नहीं हों, विनिर्देश तथा चित्र आरेख, यदि कोई हो, की संख्या प्रतियों की आपूर्ति पेटेंट कार्यालय या उसके शाखा कार्यालयों से यथाविहित प्रतियोगिता शुल्क उक्त दस्तावेज के 10 रुपये प्रति पृष्ठ भत्त 30/- रुपये की अवामगी पर की जा सकती है।

Cl. 97 F, H

183171

Int. Cl. 4 : H 05 B 6/68

A HEATING TIME CONTROL APPARATUS FOR A MICROWAVE OVEN.

Applicant : LG ELECTRONICS INC. OF 20 YOIDO DONG, YONGDUNGPO KU, SEOUL, KOREA.

Inventors :

CHUN SIG GONG
SEOG TAE KIM
YOUNG JOO SEO

Application No. 334/Cal/95 filed on 27th March, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

4 Claims

A heating time control apparatus for a microwave oven, comprising :

a key input circuit for inputting a cooking menu and a food kind;

an infrared sensor circuit for detecting surface temperature of food being cooked based on infrared rays emanating from said food and for converting the detected surface temperature into an electric signal;

a microprocessor for outputting a first heating time previously set in accordance with a selected menu and a second heating time previously set in accordance with a food kind and for monitoring said electric signal and for outputting a result obtained by multiplying an output signal difference between temperatures corresponding to a first heating completion time and a second heating completion time by a predetermined coefficient as a third heating time; and

an output control circuit for controlling a microwave output in accordance with said third heating time.

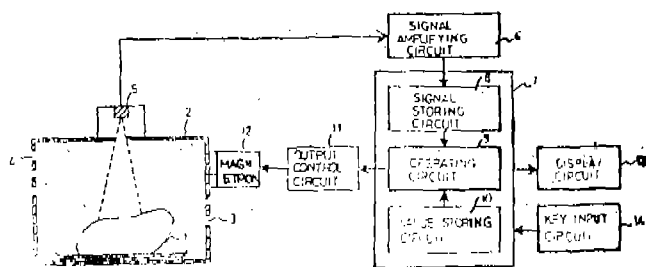


FIG. 2

Compl. Specn. : 14 pages

Drgns. : 3 sheets.

Cl. : 32 B

183172

Int. Cl. : D 01 F 6/04.

PET FIBRES WITH IMPROVED BULK AND PROCESS FOR PRODUCING THEM.

Applicant : EMS INVENTA AG., OF SELNAUSTRASSE 16, CH-8001 ZURICH SWITZERLAND.

Inventor : WERNER KAGI, DIPL. CHEM. ING./ETH.

Application No. : 345/Cal/1995 filed on 28th March, 1995.

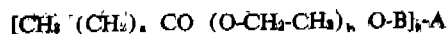
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

16 Claims

Polyethylene terephthalate staple fibre orientated by drawing and having improved bulking behaviour and improved resilience, characterised in that the polyethylene terephthalate contains additions of

0.01 to 2 wt. % of at least one conventional known nucleating agent having an average particle size below 10 µm and

0.05 to 2 wt % of an ester compound of formula I



wherein a=6-20

b=1-5

A=straight-chained or branched alkylene radical with 1 to 10 carbon atoms

B=phenyl radical

and optionally further conventional, known processing or application directed additives.

Compl. Specn. : 21 pages

Drgns. : 1 sheet.

Cl. : 9 D

183173

108 C 3

Int. Cl. : C 22 C 14/00

A PROCESS FOR THE PREPARATION OF COLD ROLLED STAINLESS STEEL STRIPS AND METAL STRIPS ? MORE PARTICULARLY OF TITANIUM ALLOYS.

Applicant : BWG BERGWERK UND WALZWERK-MASCHINENBAY GMBH, OF MERCATORSTRASSE 74-78, D-47051 DUISBURG, GERMANY.

Inventors :

ROLF NOE, DIPL. ING.,

ANDREAS NOE, DR. MONT, DIPL. ING.,

DIETER BAUKLOH, DIPL. ING.

Application No. : 526/Cal/95 filed on 10th May, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

15 Claims

A method of producing cold-rolled steel strips of stainless steel or strips of titanium-alloy from hot-rolled stainless steel or titanium alloy strip, said method comprising the steps of, in a single continuous line and in succession in said line :

(a) descaling a hot-rolled strip (2) while displacing said strip along said single continuous line by at least one of the steps of

(a1) shot blasting the hot-rolled strip;

(a2) brush polishing the hot-rolled strip; and

(a3) ultrasonically cleaning the hot-rolled strip to produce a descaled hot-rolled strip;

(b) thereafter cold rolling the descaled hot-rolled strip to final strip thickness, while displacing said strip along said single continuous line to produce cold-rolled descaled strip;

(c) subsequently annealing said cold-rolled descaled strip while displacing said strip along said single continuous line to produce an annealed strip; and

(d) thereafter pickling the annealed strip while displacing said strip along said single continuous line thereby forming the cold-rolled stainless steel or titanium alloy strip.

Compl. Specn. : 12 pages

Drgns. : 1 sheet.

Cl. : 32 D

183174

Int. Cl. : C 08 F 110/02, 110/06.

METHOD FOR PURIFICATION OF α-OLEFIN WITH AN ALKALI METAL AND METHOD FOR PRODUCTION OF POLYMERS FROM CORRESPONDING PURIFIED α-OLEFINS.

Applicant : MITSUI CHEMICALS INC., OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors :

YOSHINAO ITO

KAZUO YASUDA

SHOUGO SHIMONISHI

Application No. : 534/Cal/95 filed on 15th May, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

7 Claims

A method for purification of an α-olefin selected from ethylene and propylene for polymerization use which comprises contacting the α-olefin with an alkali metal selected from lithium, sodium, potassium, rubidium and cesium carried on a support material such as herein described, in an amount of 0.1 to 20% by weight.

Compl. Specn. : 22 pages

Drgns. : Nil.

Cl. : 90 F

183175

Int. Cl. : C 03 C 13/02.

GLASS-FIBER COMPOSITIONS.

Applicant : ISOVER SAINT-GOBAIN, OF LES MIROIRS, 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventors :

ELISABETH ROUYER

ALAN DE MERINGO

DR. WOLFGANG HOLSTEIN

STEPHANE MAUGENDRE

Application No. : 592/Cal/95 filed on 26th May, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972) Patent Office, Calcutta.

11 Claims

A glass-fiber composition that is biologically degradable, characterised by the following constituents in percent by weight :

SiO ₂	50 to 60
Al ₂ O ₃	less than 2
CaO + MgO	10 to 16
Na ₂ O + K ₂ O	14 to 19
B ₂ O ₃	7 to 16
TiO ₂	0 to 4
ZrO ₂	0 to 5
ZnO	0 to 5

MnO	0 to 4
BaO	0 to 5
Fe ₂ O ₃ , SrO	0 to 2
F, Li ₂ O	0 to 2
P ₂ O ₅	0 to 4

the amount of TiO₂, ZrO₂, ZnO MnO and BaO either alone or in mixture being 1 to 6% by weight of the composition.

Compl. Specn. : 12 pages

Drgn. : Nil.

Ind. Cl. : 90 I
135 F

183176

Int. Cl. : C 03 C 3/076, 3/087, 3/089, 3/091, 3/097.

A PROCESS FOR THE PREPARATION OF GLASS-FIBERS.

Applicant : ISOVER SAINT-GOBAIN, OF LES MIROIRS, 18, AVENUE D'ALSACE, 92400 COURBEVOIE, FRANCE.

Inventors :

ALAIN DE MERINGO,
JEAN BATTIGELLI,
DR. HANS FURTAK.

Application No. 596/Cal/95 filed on 26th May, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

13 Claims

A process for the preparation of glass fibers from a glass fiber composition, that is biologically degradable, by adopting centrifugal technique, such as herein described wherein the said glass fiber composition has the following constituents in percent by weight of the composition :

SiO ₂	45 to 60
Al ₂ O ₃	less than 2
CaO + MgO	10 to 16
Na ₂ O + K ₂ O	15 to 23
B ₂ O ₃	10 to 18
P ₂ O ₅	not more than 4
BaO	not more than 1
Impurities	not more than 2

Compl. Specn. 15 Pages;

Drgns. Nil.

Ind. Cl. : 145 B E

183177

Int. Cl. : D 21 C 3/22

A METHOD OF MAKING SANITARY PAPER PRODUCTS.

Applicant : KIMBERLY-CLARK WORLDWIDE INC., OF 401 NORTH STREET, NEENAH, WISCONSIN 54956, UNITED STATES OF AMERICA.

Inventors :

SANGHO BACK,
NICHOLAS W. LAZORISAK,
NORMAN L. SMELTZER,
JOHN F. SCHMITT.

Application No. 658/Cal/95 filed on 9th June, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

11 Claims

A method of making sanitary paper products using a material selected from newspaper containing coarse cellulosic fibers printed with ink containing oil and coarse cellulosic fibers

having a kajaani fiber coarseness greater than 18 mg/100 meters and containing 0.2 to 2.0% of a mineral or vegetable oil comprising :

- pulping said material in water with agitation to produce a pulp slurry at a consistency between 3% and 12% and a pH below 8.0;
- adding to the slurry an enzyme selected from the group consisting of cellulase, hemicellulase and lipase and maintaining said pulp slurry at a temperature above 100°F for at least 15 minutes; and
- using said enzyme treated pulp as a major source of fiber in a papermaking process to produce sanitary paper products optionally a surfactant is added to the said pulp slurry.

Compl. Specn. 40 Pages;

Drgns. 1 Sheet.

Cl. : 32 B; 40 B

183178

Int. Cl. : C 07 C 2/62; B 01 J 27/02, 20/02

A PROCESS FOR ALKYLATING HYDROCARBON.

Applicant : PHILLIPS PETROLEUM COMPANY, OF BARTLESVILLE, STATE OF OKLAHOMA, UNITED STATES OF AMERICA.

Inventors :

RONALD GORDON ABBOTT,
BRUCE BRADLEY RANDOLPH.

Application No. 1068/Cal/97 filed on 6th June, 1997.

(Divided out of No. 220/Cal/93 antedated to 16th April, 1993).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

9 Claims

A process for alkylating hydrocarbons which comprises contacting under suitable alkylation conditions a hydrocarbon mixture comprising olefins and isoparaffins with a catalyst composition comprising hydrogen halide and a sulfone compound, said hydrogen halide and said sulfone compound each being of the type such as herein described, wherein said catalyst composition contains an amount of water in the range of from about 0.25 to about 10.0 weight percent based on the total weight of said hydrogen halide and said sulfone compound so as to improve corrosion resistance of said metal surfaces to said catalyst composition.

Compl. Specn. 25 Pages;

Drgns. 4 Sheets.

Ind. Cl. : 129 D Q

183179

Int. Cl. : B 23 K 1/04

A METHOD OF PRODUCING A SUBSTRATE WITH ITS SURFACE HAVING AN ADHERENT COATING OF ALUMINIUM MATERIAL.

Applicant : LEXOR TECHNOLOGIES LIMITED, OF UNIT A7 CAPEL HENDRE INDUSTRIAL ESTATE, CAPEL HENDRE, AMMANFORD, DYFED SA18 2SF, UNITED KINGDOM.

Inventor : ROBERT MARSHALL PRIGMORE.

Application No. 2122/Cal/1997 filed on 11th November, 1997.

Divided out of No. 431/Cal/94 Antedated 14-6-94.

(Convention No. 93123228.9 on 15-6-93 in United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

20 Claims

A method of producing a substrate with its surface having an adherent coating of aluminium material, such as herein described, the surface of said substrate having a higher melting point than said aluminium coating material, the said method comprising the steps of :

applying to the substrate surface braze particles of aluminium material, such as herein described, coated with a flux material comprising potassium fluoride and aluminium fluoride, said aluminium material braze particles having been manufactured by atomization of the molten aluminium material and coated during said manufacture with the molten flux material comprising potassium fluoride and aluminium fluoride; optionally the braze particles being caused to be retained on the substrate surface by means of a resin, such as herein described, coated to the substrate surface; and raising the temperature of said substrate and said coated braze particles so as to cause said particles to melt and form an adherent coating on said substrate surface.

Compl. Specn. 21 Pages;

Drgns. 4 Sheets.

Ind. Cl. : 55 D, 32 F 2(C)

183180

Int. Cl. : A 61 K 31/04; C 07 C 129/10

PROCESS FOR THE PREPARATION OF NITROGUANIDINE DERIVATIVES.

Applicant : MITSUI CHEMICALS, INCORPORATED OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors :

KOICHI EBIHARA

DAISUKE URA

MICHIHIKO MIYAMOTO

TATSHU KAIHO.

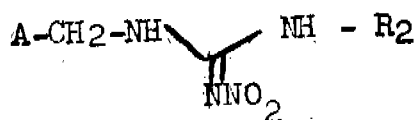
Application No. 505/Cal/98 filed on 25th March, 1998.

(Convention No.)	Date	Country
080178/1997	31-03-1997	Japan
082838/1997	01-04-1997	Japan
223813/1997	20-08-1997	Japan
258968/1997	24-09-1997	Japan
347934/1997	17-12-1997	Japan

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Calcutta.

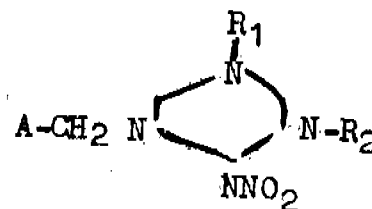
7 Claims

A process for the preparation of a nitroguanidine derivative represented by the following formula (2) :



Wherein A represents a substituted or unsubstituted aromatic or non-aromatic hydrocarbon ring, a substituted or unsubstituted aromatic or non-aromatic heterocycle, a hydrogen atom or a substituted or unsubstituted alkyl, alkenyl or alkynyl group and R₂ represents a hydrogen atom or a substituted or unsubstituted C₁₋₁₀ alkyl, alkenyl or alkynyl group, which

comprises reacting a compound represented by the following formula (1) :



wherein R₁ represents a substituted or unsubstituted, linear or cyclic C₁₋₁₀ alkyl group and A and R have the same meanings as defined above, with ammonia, primary amine or secondary amine or salt thereof, at a temperature in the range of 10-120°C and pressure in the range of atmospheric pressure to 1.4 MPa.

Compl. Specn. 31 Pages;

Drgns. Nil

Ind. Cl. : 146 D, L,

183181

Int. Cl. : G02B 23/00, 25/00

SUPPORT APPARATUS FOR SUPPORTING AT LEAST ONE IMAGING DEVICE FOR OBTAINING IMAGES FOR USE IN DISPLAYING A THREE-DIMENSIONAL ILLUSION OF SUBJECT VOLUME.

Applicant : CHRISTOPHER ALAN MAYHEW, A U.S. CITIZEN OF 6547 TUCKER AVENUE, MCLEAN, VIRGINIA 22101, UNITED STATE OF AMERICA.

Inventor : ERIC KAISER PRITCHARD.

Kind of Application : Complete.

Application for Patent No. 355/Del/88 filed on 25 April, 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

8 Claims

A support apparatus for supporting at least one imaging device for obtaining images for use in displaying a three dimensional illusion of a subject volume, said apparatus comprising bracket means (101) for holding at least one said imaging device : (102, 216) and positioning means (110, 116, 118, 120, 122) (200) having said bracket means (110) mounted thereon for locating said bracket means (101) in atleast two positions and rotating said bracket means (101) in a manner such as herein defined, said positioning means comprising at least first and second frames (202, 204) and means (208) for moving said first frame (202) along the longitudinal axis (202) of said second frame, (204) said first frame (202) having means (212) for rotatably mounting said bracket to said second frame (204) to rotate the optical axis of said imaging device (220) in a manner as herein defined, said second frame (204) having first (220) and second (222) stops movably positionable to limit relative movement of said first and second frame (202, 204) to a distance (d) as herein defined.

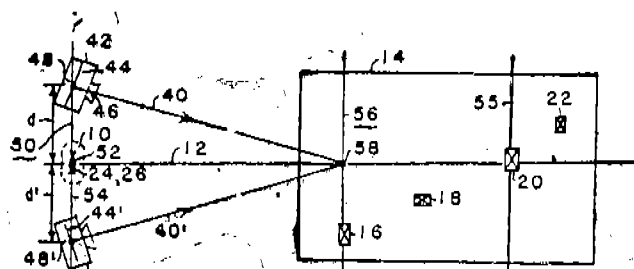


FIG. 2

Compl. Specn. 41 Pages;

Drgns. 4 Sheets.

Ind. Cl. : 168 C

183182

Int. Cl. : G08B 17/08.

BI-DIRECTIONAL BLAST SIGNAL TRANSMISSION DEVICE.

Applicant(s) : ATLAS POWDER COMPANY, A CORPORATION OF THE STATE OF DELAWARE, OF 15301 DALLAS PARKWAY, THE COLONNADE, SUITE 1200, DALLAS, DALLAS COUNTY, TEXAS 75248, U.S.A.

Inventor(s) : PETER FRANCIS REISS.

Application for Patent No. 460/Del/88 filed on 24 May 1988.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

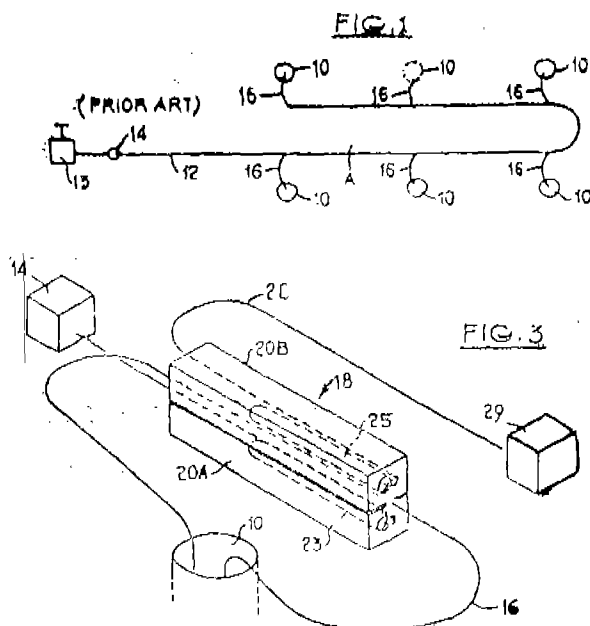
Claims 7

A bi-directional blast signal transmission device, comprising : a signal transmission line (12);

blasting caps (24/24) attached to each end of the transmission line (12);

a first and second connector (20A, 20B), each said connector having a well (22a) for receiving one of said blasting caps (24), and a channel (26a) for receiving a portion of said transmission line (12) such that the transmission line (12) lies in close proximity to said well (22A), and means (32, 33) for firmly joining one connector (20A) to another connector (20B) in such a manner and in such close proximity as to enable the detonation of a blasting cap (24) in one connector (20A) to detonate the blasting cap (24) in the adjoining connector (20B); and

said blasting caps (24) being inserted within the well (22a) of each connector (20A, 20B), and said transmission line (12) being inserted into said channel (26a).



(Complete Specification 19 Pages

Drawing Sheet 3)

Ind. Cl. : 170 D.

183183

Int. Cl. : C 11 D 1/12.

A PROCESS OF MAKING A LAUNDRY DETERGENT BAR.

Applicant : THE PROCTER & GAMBLE COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF OHIO, U.S.A. OF ONE PROCTER & GAMBLE PLAZA, CINCINNATI, STATE OF OHIO, U. S. A.

Inventor : BENNY SIN-HOI YAM—U.S.A.

Kind of Application : Complete.

Application for Patent No. 521/Del/88 filed on 14th June 88.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(5 Claims)

A process of making a laundry detergent bar, which process comprises :

(a) neutralizing a substantially anhydrous linear alkylbenzene sulfonic acid, the linear alkyl chain of which contains from 8 to 16 carbon atoms in a reaction vessel by reaction with a substantially anhydrous granular base selected from alkali metal carbonates, alkali metal bicarbonates, and mixtures thereof to form alkali metal linear alkylbenzene sulfonate; and blending from 5% to 50% by weight of said alkali metal linear alkylbenzene sulfonate with from 5% to 85% of a detergent builder; with the proviso that any water blended with said alkali metal alkylbenzene sulfonate subsequent to the neutralizing step is in the form of water of hydration of an inorganic salt and making in any conventional manner, detergent bar from said blend.

(Complete Specification 23 Pages

Drawing Sheet - Nil).

Ind. Cl. : 39N

183184

Int. Cl. : C01F 7/56.

AN IMPROVED PROCESS FOR THE ELECTROCHEMICAL PREPARATION OF ALLUMINIUM HYDROXY-CHLORIDES.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001. INDIA AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT.

Inventors :

MANDAPATI MOHAN RAO,
SUBRAMANIAN PUSHAPAVANAM,
SWAMINATHAN MOHAN,
KAPISTHALAM CHETLUR NARASIMHAM.

Kind of Application : Complete.

Application For Patent No. 133/Del/91 filed on date 20-02-91.

Appropriate Office for Opposition Proceeding (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(Claims-8)

An Improved process for the electrochemical preparation of Aluminium Hydroxychlorides by the electrolysis of aluminium chloride solution using anode comprising of noble metal oxide coated titanium and the cathode comprising of graphite, mild steel, stainless steel, titanium or aluminium the electrolyte comprising of aluminium chloride 100-500 gm/l, the pH of the electrolyte being 0.5-2.5, the electrolysis being effected at a temperature in the range of 25-80° C with a current density between 5-25 a.dm⁻² till the ratio of aluminium to chloride is in the range of 1:1.5 to 2:1.

Complete Specification 9 Pages and Drawing Sheet NIL.

Ind. Class : 32B

183185

Int. Class⁴ : C07C 2/06.**PROCESS FOR THE PRODUCTION OF 2, 3-DIMETHYLBUTENE-1-FROM PROPANE.**

Applicant : BP CHEMICALS LIMITED, A BRITISH COMPANY, OF BELGRAVE HOUSE, 76 BUCKINGHAM PALACE ROAD, LONDON, SW1W 0SU, ENGLAND.

Inventors :

ALEXANDER GEORGE KENT,
MALCOLM JOHN LAWRENSEN,
DEREK KENNETH MACALPINE.

Kind of Application : Complete/Convention/Divisional.

Application for Patent No. 390/Del/91 filed on 1st May, 91.

Convention date 23-04-87/8709648/(U.K.).

Divided out of Patent Application No. 346/Del/88 dated 21-04-88.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(7 Claims)

A process for the manufacture of 2,3-dimethylbutene-1 (2, 3-DMB-1) by the dimerisation of propene characterised in that the process comprises the steps :

(A) contacting propene with a known dimerisation catalyst of the kind such as herein described to produce a product in which the proportion of 2, 3-dimethylbutene-2 (2, 3-DMB-2) isomer is maximized,

(B) separating by distillation 2, 3-DMB-2 isomer from the product of step (A),

(C) contacting the 2, 3-DMB-2 separated in step (B) with an isomerisation catalyst of the kind such as herein described under conditions of the kind such as herein described whereby 2, 3-DMB-2 isomer is isomerised to 2, 3-DMB-1 isomer.

Agent : Remfry & Sagar.

(Complete Specification 20 pages

Drawing 1 sheet).

Ind. Cl. : 57 B.

183186

Int. Cl.⁴ : E 05 F 1/00.**A HYDRAULIC DOOR CLOSER-CUM HINGE SET.**

Applicant : RAM SARUP KAUSHAL, AN INDIAN NATIONAL OF S-9, AJAY ENCLAVE MARKET, NEW DELHI-110018.

Inventor :

RAM SARUP KAUSHIK—INDIA.

Kind of Application : Complete.

Application for Patent No. 167/Del/92 filed on 28th Feb. 1992.

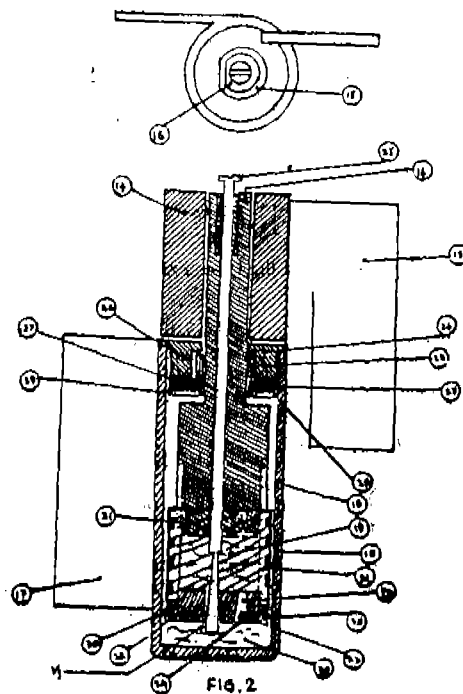
Appropriate Office for Opposition Proceeding (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(3 Claims)

A Hydraulic Door Closer-cum-Hinge set comprising of a spring unit and hydraulic unit, said spring unit having a housing (6) for accommodating spring (7) and provided with flap (5) to be fixed with frame and cylindrical housing (2) with flap (1) to be fixed with door, a rod (4) rotatable with the movement of door, provided with spring with its one end (8) hooked to rod (4) and other end (9) to bush (10) held tight with a pin for adjusting its tension.;

said hydraulic unit comprising a circular body (14) for accommodating a piston rod (16) and provided with flap (13) to be fixed with door and cylindrical housing (18) provided with flap (17) to be fixed with frame, piston (rod) (16) rotatable with movement of said rod (4) which in turn moves with worm (21) fitted with piston (22) provided below the said worm (21), the movement of said piston operates the valves V1, V2 thus checks the free flow of hydraulic oil provided in the said housing.

Agent : Self.



(Complete Specification 8 Pages

Drawing Sheets 2).

Ind. : 127 D.

183187

Int. Cl.⁴ : F 16 C 1/00.**A DEVICE TO IMPART MOTION TO A GENERATOR.**

Applicant : SURAJ PRAKASH SHARMA, 2309, SECTOR 22-C CHNDIGARH.

Inventor :

SURAJ PARKASH SHARMA.

Kind of Application : Provisional - Complete.

Application for Patent No. 1072/Del/92 filed on 19th Nov. 1992.

Complete Left after Provisional Specification filed on 15-02-94.

Appropriate Office for Opposition Proceeding (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110005.

(4 Claims)

A device to impart motion to a generator comprising :

- a main wheel (1) having cuts (1A) on its peripheric surface provided on a frictionless bearing between two supports.
- a small wheel (6) loaded with a spring (7) moves on the said cuts (1A) being held by a connecting rod (5) and a hammer (4).
- the said hammer (4) is provided with a support (2) on one side with means (6) to compress the small wheel continuously with four hammers on the side of the wheel (1).

(Provisional Specification 2 Pages

Drawing Sheet-III).

(Complete Specification 3 Pages

Drawing Sheet-I).

Ind. Cl. : 55F, 55E, 32F3C

183188

6 Claims

Int. Cl.⁴ : A 61 K 31/00, C 07 G 3/60

A PROCESS FOR THE ISOLATION OF 3-(4-O-β-D-APIOSYL-(1"→3")-O-β-D-GLUCOPYRANOSYL, 3', 5'-DIMETHOXYPHENYL)-2-TRANS-PROPENE-1-OL FROM (CORDIFOLI SIDE A).

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

Inventors :

RAKESH MAURYA, INDIA.

ARUNA KAPIL, INDIA.

RANDHIR SINGH KAPIL, INDIA.

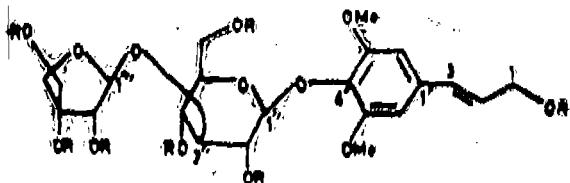
Kind of Application : Complete.

Application for Patent No. 559/Del/93 filed on 1-6-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the isolation of (3-4'-O-β-D-APIOSYL-(1"→3")-O-β-D-GLUCOPYRANOSYL, 3', 5'-DIMETHOXYPHENYL)-2-trans-propene-1-ol, (cordifolioside A) of the formula I



shown in the drawing accompanying this specification where R represents hydrogen group from *Tinospora* species which comprises : (a) powdering of the stem, roots or any other part of the plant of *Tinospora cordifolia*, *Tinospora malabarica* or *Tinospora crispa*, (b) extracting the said powder with an aqueous alcohol, (c) concentrating the aqueous alcoholic extract to minimum volume and partitioning the said extract with organic solvents in the order of increasing polarity such as herein described and thereafter treating polar fraction so obtained with alcohol (1-4 carbon atoms) followed by centrifuging, (d) isolating the 3-(4'-O-β-D-APIOSYL-(1"→3")-O-β-D-GLUCOPYRANOSYL, 3', 5'-DIMETHOXYPHENYL)-2-trans-propene-1-ol (cordifolioside A) from the supernatant so obtained in step (c) by applying modern chromatographic methods and employing silica gel of the mesh size of (130—270).

(Compl. Specn. 0 Pages;

Drgn. 1 Sheet)

Ind. Cl. 55 E, 32 C, 32 F3C

183189

Int. Cl.⁴ : A 61 K 31/00, C 07 G 3/00

A PROCESS FOR THE ISOLATION OF NOVEL CHOLEST-3, 14, 20, 22, 24, 25-HEXAHYDROXY, 7-ENE-6-ONE.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

Inventors :

RAKESH MAURYA, INDIA.

ARUNA KAPIL, INDIA.

RANDHIR SINGH KAPIL, INDIA.

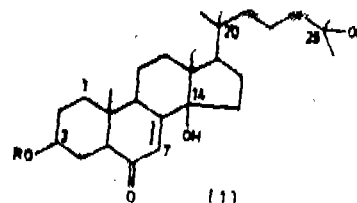
Kind of Application : Complete.

Application for Patent No. 560/Del/93 filed on 1-6-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

2—267 GI/99

A process for the isolation of novel cholest-3, 14, 20, 22, 24, 25-hexahydroxy, 7-ene-6-one from *Tinospora* species of the formula I



(where R=H) shown in the drawing accompanying this specification which comprises : (a) powdering the stem, roots or any other part of the plant of *T. cordifolia*, *T. malabarica* or *T. crispa*, (b) preparing an alcoholic extract of the powdered plant material obtained in step (a), (c) concentrating the said extract to minimum volume and extracting with organic solvents of increasing polarity and thereafter treating with alcohol (1-4 carbon atoms) and centrifuging, (d) isolating the cholest-3, 14, 20, 22, 24, 25-hexahydroxy, 7-ene-6-one from the organic extract obtained in step (c) by applying known modern chromatographic method such as herein described and employing silica gel of the mesh size (230—400).

(Compl. Specn. 8 Pages;

Drgn. 1 Sheet)

Ind. Cl. : 32F3(a) & 55D2

183190

Int. Cl.⁴ : A 01 N 33/00

AN IMPROVED PROCESS FOR THE PREPARATION OF 2-ALKYL-6-METHYL-N-(1'-METHOXY-2-PROPYL)-ANILINE.

Applicant : NOVARTIS AG., OF SCHWARZWALDALLEE 215,4058 BASEL, SWITZERLAND.

Inventors :

ROLF BADER (SWITZERLAND).

PETER FLATT (SWITZERLAND).

PAUL RADIMERSKI (SWITZERLAND).

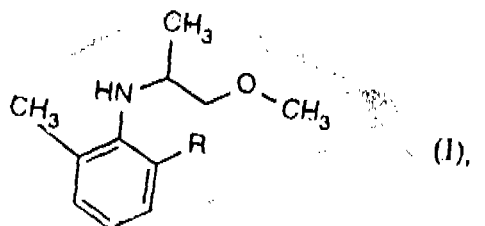
Kind of Application : Complete.

Application for Patent No. 1315/Del/93 filed on 23-11-93.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

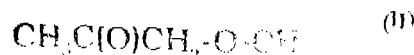
9 Claims

An improved process for the preparation of 2-alkyl-6-methyl-N-(1'-methoxy-2'-propyl)-aniline of the formula I

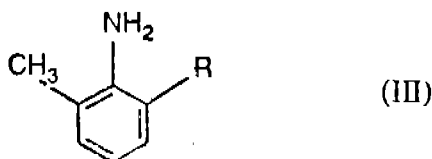


Where R is methyl or ethyl

by catalytic reductive alkylation wherein at least one mole equivalent of methoxyacetone of the formula II



is reacted with one mole equivalent of 2-alkyl-6-methyl-aniline of the formula III



wherein 3 is as defined above, in a liquid medium of the kind such as hereinbefore described without an additional solvent, in the presence of a platinised carbon catalyst and hydrogen and a conventional acid cocatalyst under a hydrogen pressure of between 2×10 and 1×6 Pa at a temperature between 20 and 80 °C, characterised in that the reaction mixture contains water at the beginning of the reaction, and after completion of the hydrogenation, base is added to neutralise the acid cocatalyst, the reaction mixture is filtered to separate the catalyst which if desired is recycled, and the compound of formula 1 is recovered from the filtrate by any known method.

Agent :—Remfry & Sagar.

(Compl. Specn. 12 Pages;

Drgn. Sheet Nil)

Ind. Cl. : 55 E, 60 × 2b.

183191

Int. Cl. : A 61 K 31/00, 37/00.

A PROCESS FOR THE ISOLATION OF A MIXTURE OF PODOPHYLLOTOXIN AND 4' DEMETHYLOPODOPHYLLOTOXIN FROM THE MARC OF PODOPHYLLOTOXIN.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT, (ACT XXI OF 1860).

Inventors :

SURINDER MOHAN ANAND—INDIA,
SATINDER MOHAN JAIN—INDIA and
RANDHIR SINGH KAPIL—INDIA,

Kind of Application : Complete.

Application for Patent No. 1466/Del/93 filed on 28th December, 1993.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

4 Claims

A process for the isolation of a mixture of podophyllotoxin and 4'demethylpodophyllotoxin from the marc of podophyllotoxin which comprises hydrolysing the marc of podophyllotoxin obtained by known methods, with polar solvents in the presence of an enzyme emulsion (-glucosidase), at a pH in the range of 4 to 7 at a temperature in the range of 30°C to 37°C for 4 to 6 hours extracting the mixture with chloro solvents then treating with neutral alumina to get a mixture of podophyllotoxin and 4' demethylpodophyllotoxin.

(Compl. Specn. 10 Pages;

Drgn. Sheet Nil)

Ind. Cl. : 32 F₃C, 32E, 55E₂, 55E,

183192

Int. Cl. : A 61 K 31/00, C07 C 3/00

A PROCESS FOR THE ISOLATION OF A FRACTION POSSESSING IMMUNOSTIMULANT PROPERTIES FROM TINOSPORA CORDIFOLIA.

Applicant : COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH, RAJ MARG, NEW DELHI-110001, INDIA.

Inventors :

RAKESH MAURYA, INDIA,
ARUNA KAPIL, INDIA
RANDHIR SINGH KAPIL, INDIA,

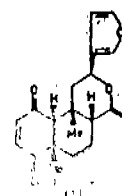
Kind of Application : Complete.

Application for Patent No. 89/Del/94 filed on 25-1-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A process for the preparation of a fraction possessing immunostimulant properties from *Tinospora Cordifolia* mainly containing (a) tinosporaside having the structure shown in formula 1



(b) a new compound designated as tinocordioside and, the amount of (a) and (b) ranging from 55—77% which comprises, (i) extracting the powdered stem aerial portion of the plant *T. cordifolia* with deionized/distilled water and drying the extract, (ii) treating the said extract obtained in step (i) with polar solvent(s) or mixture thereof as herein described (iii) triturating the dried alcoholic extract with a non-polar hydrocarbon solvent to remove the less polar impurities and to obtain the said fraction in pure form.

(Compl. Specn. 10 Pages;

Drgn. 1 Sheet)

Ind. Class. : 55 E

183193

Int. Class. : A61K 31/00.

A PROCESS FOR THE PREPARATION OF A SPERMICIDAL AGENT.

Applicant : CHIEF CONTROLLER, RESEARCH & DEVELOPMENT ORG. MINISTRY OF DEFENCE, TECHNICAL COORDINATION DTE, B-341, SENA BHAWAN DHO P. O., NEW DELHI-110 011.

Inventors :

CHAKRAVARTHINAINAR DEVAKUMAR
(INDIAN) &

GOVINDASAMY ILAVAZHAGAN (INDIAN).

Kind of Application : Complete.

Application for Patent No. 170/Del/94 filed on 14-2-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110005.

6 Claims

A process for the preparation of a spermicidal and antifertility agent from neem oil extractives comprising in the step of solvent partition by mixing neem oil extractives with aliphatic hydrocarbon solvent such as n-hexane characterised in that said step of solvent partition is carried out at a temperature of 0 to 30°C, said solvent been present in the ratio of 0.5 : 1 and 3 : 1 so as to obtain a miscible solution and a precipitate of bitter constituents, removing the precipitate, subjecting the decanted solution to the step of enrichment by passing steam through the distillate and collecting the distillate over an organic solvent immiscible or partly immiscible in water, the organic solvent being separated therefrom and the remainder being dried over anhydrous sodium sulphate to get said spermicidal and antifertility agent.

Agent : L. S. Davar & Co.

(Complete Specification 10 pages).

Ind. Cl.: 30 F₃C: 55 F.

183194

Int. Cl.: C 12 P, 13/04, C 07 C 99/00.

A PROCESS FOR THE PREPARATION OF MONO-OR POLYHYDROXYLATED AMINO ACIDS FROM TRIGONELLA SP.

Applicant: LABORATORIES MONAL, A FRENCH COMPANY, OF RUE SALVADOR ALLENDE, 91122 PALAISEAU, FRANCE.

Inventors:

YVES SAUVAIRE—FRANCE.

GERARD RIBES—FRANCE.

Kind of Application: Complete.

Application for Patent No. 244/Del/94 filed on 01st March, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process for the preparation of mono-or polyhydroxylated amino acids and its derivatives from trigonella sp comprising:

- delipidizing any part of plant of Trigonella sp. by a preliminary extraction in a conventional manner such as herein before described to provide a delipidised cake;
- subjecting said cake to further aqueous-alcoholic extractions;
- concentrating said extract of step (b) above under reduced pressures;
- separating said mono or polyhydroxylated amino acids or derivatives from the concentrated extract of step (c) in any manner such as hereinbefore described; and
- further concentrating said mono or polyhydroxylated amino acid and derivatives under vacuum and subsequently purifying said concentrated product by crystallization, to obtain said mono-or polyhydroxylated amino acids and its derivatives.

Agent: Remfry & Sagar.

(Compl. Specn. 22 Pages;

Drgn. Sheet Nil)

Ind. Cl.: 32 F1

183195

Int. Cl.: C07C 17/00

AN IMPROVED PROCESS FOR THE PREPARATION OF HYDROGENATED ORGANIC COMPOUNDS.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-110001, INDIA, AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGISTRATION OF SOCIETIES ACT (ACT XXI OF 1860).

Inventors: RAGHUNATH VITTHAL CHAUDHARI, INDIA, BHALCHANDRA MAHADEO BHANAGE, INDIA, SUNIL SADASHIV DIVEKAR, INDIA, RAJ MADHUKAR DESHPANDE, INDIA.

Kind of Application: Complete.

Application for Patent No. 701/Del/94 filed on 2nd June, 94.

Appropriate Office for Opposition Proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

11 Claims

An improved process for the preparation of hydrogenated organic compounds which comprises hydrogenating organic compounds having one or more functional groups such as herein described using biphasic media wherein the aqueous phase consisting of water soluble metal complex catalyst

of group VIII element and water soluble phosphine ligand such as herein described and the organic phase comprising of N or P containing water insoluble ligand such as aryl as well as alkyl phosphine and phosphites and amines with or without water immiscible organic solvent at a temperature in the range of 50 to 150°C and hydrogen pressure in the range of 5 to 2000 psig under stirring and recovering the hydrogenated compound by known methods.

(Compl. Specn. 19 Pages;

Drgn. Nil)

Ind. Cl.: 55 F.

183196

Int. Cl.: A 61 I-9/08.

A PROCESS FOR THE PREPARATION OF A CONTRACEPTIVE FOR USE BY A MALE.

Applicant: SUJOY KUMAR GUHA, AN INDIAN NATIONAL OF INDIAN INSTITUTE OF TECHNOLOGY, DELHI, HAUZ KHAS, NEW DELHI-110016.

Inventor: SUJOY KUMAR GUHA—INDIA.

Kind of Application: Complete.

Application for Patent No. 1125/Del/94 filed on 06-09-94.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims

A process for the preparation of a contraceptive for use by a male comprising an injectable fluid having 40–60% copolymer of styrene maleic anhydride in a solvent such as dimethylsulphoxide characterised in that said copolymer being prepared by copolymerising styrene and maleic anhydride monomer in the ratio of 1.2:1 respectively in ethyl acetate in a nitrogen atmosphere and subjecting the same to the step of irradiation at a dose of 0.2 to 0.24 mega rad for every 40 gms. of copolymer at a dose rate of 30 to 40 rad/sec.



Fig. 3

Agent: L. S. Davar & Co.

(Compl. Specn. 22 Pages;

Drgn. Sheet 1)

Ind. Cl.: 55 D₃

183197

Int. Cl.: A 01 N, 33/06

A PROCESS FOR PREPARING A HERBICIDAL 2-(4, 6-DIMETHOXYPYRIMIDIN-2-YL) OXYBENZOIC ACID IMINO ESTER DERIVATIVE.

Applicant: LUCKY LTD., OF 20, YOIDO-DONG, YONG-DUGPO-KU, SEOUL, KOREA INCORPORATED UNDER THE LAWS OF REPUBLIC OF KOREA.

Inventors :

CHANG UK HUR, KOREA.
JIN HO CHO, KOREA.
SU MYEONG HONG, KOREA.
HONG WOO KIM, KOREA.
YOUNG HEE LIM, KOREA.
JEE SUK RIM, KOREA.
JEONG SU KIM, KOREA.
SANG HEON CHAE, KOREA.

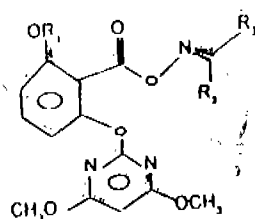
Kind of Application : Complete.

Application for Patent No. 1445/Del/1994 filed on 11th Nov, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, New Delhi-110 005.

5 Claims

A process for preparing a herbicidal 2-(4, 6-dimethoxypyrimidin-2-yl) Oxybenzoic Acid Imino Ester Derivative Represented by the following general formula (I) :

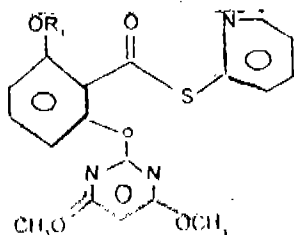


in which

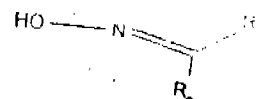
R₁ represents 4, 6-dimethoxy-2 pyrimidinyl, C₁-C₄ alkyl, C₂-C₄ alkenyl, acyl, C₁-C₄ alkylsulfonyl or heteroarylemethyl;

R₂ represents hydrogen, halogen, cyano, C₁-C₈ alkyl, C₁-C₈ alkoxy, C₁-C₈ alkylthio, C₁-C₈ alkoxy carbonyl, C₂-C₄ alkenyloxy carbonyl, arylmethoxycarbonyl, aryl, C₁-C₄ alkylaminocarbonyl, heteroaryl methylaminocarbonyl, aryl, C₂-C₈ alkenyl, C₃-C₈ cycloalkyl, benzyl, aryloxy, arylthio or C₁-C₈ alkylcarbonyl; & R₃ represents phenyl group which can be optionally substituted with substituent selected from the group consisting of halogen, cyano, nitro, C₁-C₄ alkyl, C₃-C₈ cycloalkyl, C₁-C₄ alkoxy, C₁-C₄ alkylthio, amino which can be substituted with C₁-C₄ alkyl, aryl aryloxy, C₁-C₄ acyl, C₁-C₄ acyloxy and C₂-C₄ alkenyl, or represents a group of formula-COR₄ where R₄ represent hydrogen, C₁-C₄ alkyl, C₂-C₄ alkenyl, C₃-C₈ cycloalkyl, benzyl, aryl, C₁-C₄ alkoxy, C₂-C₄ alkenyloxy, C₃-C₈ cycloalkyloxy, benzyloxy, aryloxy, C₁-C₄ alkylthio, C₂-C₄ alkenylthio, C₃-C₈ cycloalkylthio, benzylthio, arylthio, amino which can be substituted with C₁-C₄ alkyl, amino which can be substituted with aryl, or amino which can be substituted with arylmethyl,

characterized in that a compound represented by the following general formula



in which R₁ is defined as above, is reacted with a compound represented by the following general formula (III) :



in which R₂ and R₃ are defined as above, in a inert organic solvent as herein described in the presence of a cupric salt.

Agent : Kan & Krishme.

Compl. Specn. 74 Pages;

Drng. Nil

Ind. Cl. : 55 E₁, 60 X₂b.

183198

Int. Cl.⁴ : C 07 K, 15/00

A PROCESS FOR PREPARING MONOCLONAL ANTIBODIES AGAINST gIIp AND gVIIIp of FILAMENTOUS PHAGE M13.

Applicant : UNIVERSITY OF DELHI SOUTH CAMPUS, DEPARTMENT OF BIOCHEMISTRY, BENITO JUAREZ ROAD, NEW DELHI-110021, INDIA AND SECRETARY, DEPARTMENT OF BIOTECHNOLOGY, MINISTRY OF SCIENCE AND TECHNOLOGY, C.G.O. COMPLEX, BLOCK II, LODHI ROAD, NEW DELHI-110003, INDIA.

Inventor : VIJAY KUMAR CHAUDHARY—INDIA.

Kind of Application : Complete.

Application for Patent No. 767/Del/94 filed on 17th June, 1994.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

4 Claims

A process of preparing monoclonal antibodies (MAbs) (non living substance) against two coat proteins gIIp and gVIIIp of filamentous phage M13 which comprises :

- fusing the removed spleen cells containing antibodies of Balb/c mice obtained by injecting purified phage M13 with Sp⁺/0 cells (cancer cells) in vitro to immortalize and multiply and form hybrid cells using polyethylene glycol;
- purifying the said hybrid cells by known limiting cell dilution method;
- identifying hybridomas producing monoclonal antibodies by a combination of ELISA and Western Blot analysis; and
- obtaining the monoclonal anti-bodies from the said identified hybridomas.

Agent : The ACME Company.

(Complete Specification 16 Pages

Drawing Sheets—7).

Ind. Cl. : 55 E₁, 60(2b)

183199

Int. Cl. : A 61 K, 31/00.

A PROCESS OF PREPARING A SYNERGISTIC PHARMACEUTICAL UNANI COMPOSITION FOR THE TREATMENT OF VIRAL HEPATITIS AND JAUNDICE.

Applicant : HAKIM ABDUL HAMEED, INDIAN HAMDARD MANZIL HAMDARD MARG, DELHI-110006, INDIA.

Inventor : HAKIM ABDUL HAMEED—INDIAN.

Kind of Application : Complete.

Application for Patent No. 331/Del/1995 filed on 28th February, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules 1972) Patent office Branch, New Delhi-110005.

4 Claims

A process of preparing a synergistic pharmaceutical Unani composition for the treatment of viral Hepatitis and jaundice comprising :

- preparing extracts with ethyl alcohol and distilled water in the ratio of 60-40:40-60% of the following ingredients collectively :

Ingredients	Quantity by parts
Cichorium intybus (leaves)	6-10
Tamarix dioca (leaves)	14-18
Rubia cordifolia (roots)	6-10
Rheum emodi (rhizome)	10-14
Cassia occidentalis (leaves)	10-14
Careya arborea (bark)	6-10
Plantago major (seeds)	1-5
Rosa damascena (flower)	8-12
Solanum xanthocarpum (whole plant)	8-12
Solanum nigrum (whole plant)	6-10
piper nigrum (fruit)	0.5-2
Pimpinella anisum (fruit)	6-10
Cuscuta reflexa (roots)	6-10
Cyperus scariosus (tuber)	2-6
Sugar	q.s.

— concentrating the said extract and reducing its volume 0.4 to 0.2 level.

— mixing the said concentrated extracts with predetermined extracts with predetermined quantity of sugar syrup.

— homogenizing the aforesaid mixture to ensure uniformity and therapeutic value of the composition.

Agent : The ACME Company.

(Compl. Specn. 28 Pages;

Drgn. Nil)

Ind. Cl.5:5 E., 60, 2b.

183200

Int. Cl.⁴ : A 61 K, 31/00.

A PROCESS OF PREPARING A UNANI COMPOSITION (JIGROL) FOR THE TREATMENT OF VIRAL HEPATITIS AND JAUNDICE.

Applicant : HAKIM ABDUL HAMEED, INDIAN, HAMDARD MANZIL, HAMDARD MARG, DELHI-110006, INDIA.

Inventor : HAKIM ABDUL HAMEED—INDIAN.

Kind of Application : Complete.

Application for Patent No. 610/Del/1995 filed on 31st March, 1995

Appropriate Office for Opposition Proceedings Rule 4, (Patent Rules 1972) Patent Office Branch, New Delhi-110005.

3 Claims

A process of preparing a synergistic unani composition (Jigrol) for the treatment of viral hepatitis and jaundice comprising :

— Preparing extracts with ethyl alcohol and distilled water in the ratio of the 60-40 : 40-60% of the following ingredients collectively :

Ingredients	Quantity of herbs by parts	Quantity of dry extract by parts
A DRY EXT. OF :		
Cichorium intybus (Seeds)	6-10	3-7
Tamarix dioca (Leaves)	14-18	
Rubia cordifolia (stems)	6-10	
Rheum emodi (Wood)	14-18	
Cassia occidentalis (Leaves)	10-14	
Vitex negunda (Leaves)	2-6	
Careya arborea (Leaves)	6-10	
Plantago major (Stems)	1-5	
Rosa damascena (Flower)	8-12	
Petal		
Solanum xanthocarpum (Whole Plants)	8-12	
Solanum nigrum (Whole Plants)	6-10	
Pimpinella anisum (seeds, fruits)	6-10	
Cuscuta reflexa (stems)	6-10	
Cyperus scariosus (Whole Plants)	2-6	

— concentrating the said extract to powder form by heating,

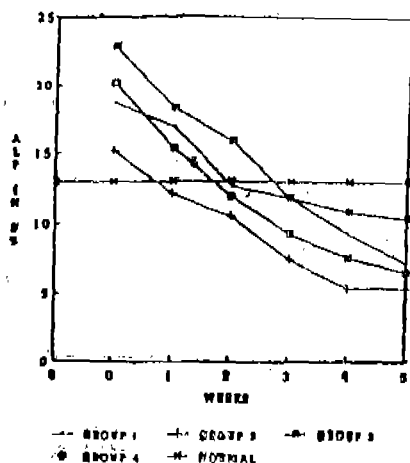
— mixing the said powder form 3-7 parts with the following ingredients.

B

Ingredients B	Quantity by parts
Ammonium Chloride (salt)	0.6-1.4
Curcuma longa (Tuber)	0.9-2.1
Piper nigrum (Fruits)	0.6-1.4
Excepiant & binders	q.s

- homogenising the aforesaid mixture to ensure uniformity and therapeutic value of the composition and thereafter compressing into tablets.

Agent: The ACME Company.



(Complete Specification 33 Pages

Drawing Sheets 8).

Cl.: 19A, C

183201

Int. Cl.: F 16 B 35/00

A ROCK BOLT.

Applicant: THE BROKEN HILL PROPRIETARY COMPANY LTD., OF 600 BOURKE STREET MELBOURNE, VICTORIA 3000 AUSTRALIA.

Inventors: WINTON JAMES GALL, MIECZYSLAW WIESLAW FABJANCZYK, MAXWELL THOMAS RENWICK.

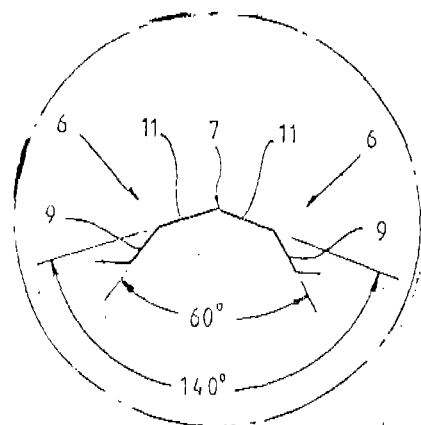
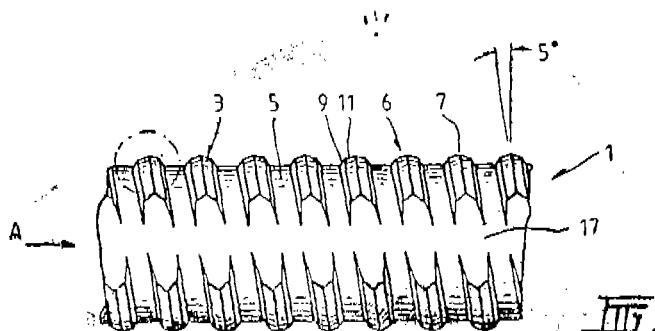
Application No.: 647/Cal/94 filed on 11th August, 1994.

(Convention No. PM0540 on 12-08-93 in Australia)

Appropriate Office for Opposition Proceedings Rule 4, Patents Rules 1972), Patent Office, Calcutta.

30 Claims

A rock bolt adapted to be anchored in a hole in a rock formation by means of a cement or a chemical resin anchor thereby to form a rock bolt system, the rock bolt comprising a core on which is formed a profile for optimising the load transfer and the stiffness properties of the rock bolt system, the profile comprising opposed sides, with one or both sides comprising at least two sections, with a first section being steeper than a second section.



III. 3

(Complete Specification 20 pages

Drawings: 6 sheets)

Cl.: 63 I

183202

Int. Cl.: B 06 B 1/12

DEVICE FOR CONVERTING GRAVITATIONAL ENERGY INTO MECHANICAL WORK.

Applicant & Inventor: ASHRU BINDU MAJHI, OF VILL. PANBHUNI, P.O. BHAIJACHAULY, DIST. MIDNAPUR, STATE OF WEST BENGAL, INDIA.

Application No.: 721/Cal/94 filed on 9th September, 1994.

(Post dated to 7th August, 1998).

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972), Patent Office, Calcutta.

13 Claims

Device for converting gravitational energy into mechanical work which comprises providing several movable hollow frames (crank shaft), each frame consisting of at least two hollow frames vertically fixed together at the center (A_1A_3 & A_2A_4), the center of each frame being connected with each other by a solid rod (A) at the center; frames being capable of rotation with least friction; weight of definite values (W) having necessary drill and provided with a small rod (D_1D_2) through it; both the sides of the rod protruding out from the weight value are equal in length and are attached to the frame at definite points (E_1E_2) by strings or chains; a rod (C) of definite size and length is fixed with the weight value; a portion of the rod is attached with the upper portion of the opposite frame (A_3A_4) while another definite point of the rod is attached by a string or chain to the middle portion of a rod (PY) fixed on the frame (A_1A_2) on which the weight value is attached, where the rod (PY) is fixed at a distance of half of the frame length from the middle point of the frame in such a way that the rod along with weight value are capable of moving in the hollow portion of the frame; weights of same values are attached in the same way into similar other frames but in opposition to each other and are mutually connected by the rod (A) passing

through the center of each frame having necessary arrangement for stopping the movement of the movable frames and provided with necessary arrangement of supplying energy to the device intermittently.

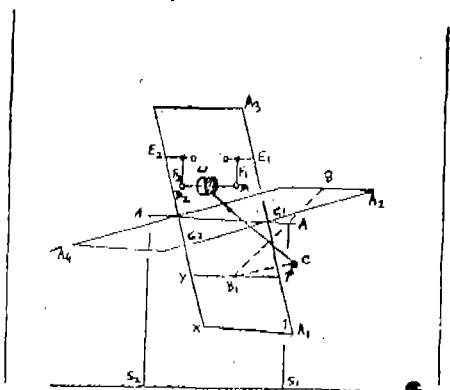


Fig. 1

(Compl. Specn. : 11 pages;

Drgns. : 2 sheets)

Cl. : 32 F 1

183203

Int. Cl. : C 07 C 21/06

"PROCESS FOR THE PREPARATION OF VINYL CHLORIDE".

Applicant : HOECHST AKTIENGESellschaft, OF D-65926 FRANKFURT AM MAIN, GERMANY.

Inventors :

PETER SCHWARZMAIER
PETER HACKL
MANFRED STÖGER
INGOLF MIELKE

Application No. : 1079/Cal/94 filed on 26th December, 1994.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

4 Claims

A process for the preparation of vinyl chloride by thermal cracking of 1, 2-dichloroethane, characterized in that passing the effluent from a 1, 2-dichloroethane cracking furnace into a radiometric measurement zone and passing high-energy radiation through said effluent; measuring the absorption of said radiation; determining the conversion to vinyl chloride

in said cracking furnace by the degree of adsorption of said radiation; and maintaining a desired conversion to vinyl chloride in said cracking furnace based upon said adsorption.

(Compl. Specn. : 6 pages;

Drgns. : Nil)

Cl. : 50 F 2

183204

Int. Cl. : F 25 B 30/02

"REFRIGERANT FLOW RATE CONTROL BASED ON EVAPORATOR DRYNESS".

Applicant : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHNECTADY 12345, STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventor : WARREN FRANK BESSLER.

Application No. : 226/Cal/95 filed on 2nd March, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

16 Claims

A refrigerator system (10) for cooling at least one compartment (22), said refrigeration system comprising :

an evaporator (18) having an inlet port and an outlet port;

a pulse width modulated solenoid valve (16) connected to said inlet port of said evaporator by an evaporator inlet line (21);

sensing means (28, 30) for sensing the temperature difference between said compartment and one of said port and generating a signal representative thereof; and

a controller (26) responsive to said sensing means for controlling the duty cycle of said pulse width modulated solenoid valve in response to said signal from said sensing means, whereby the duty cycle of said pulse width modulated solenoid valve is controlled as a function of the sensed temperature difference.

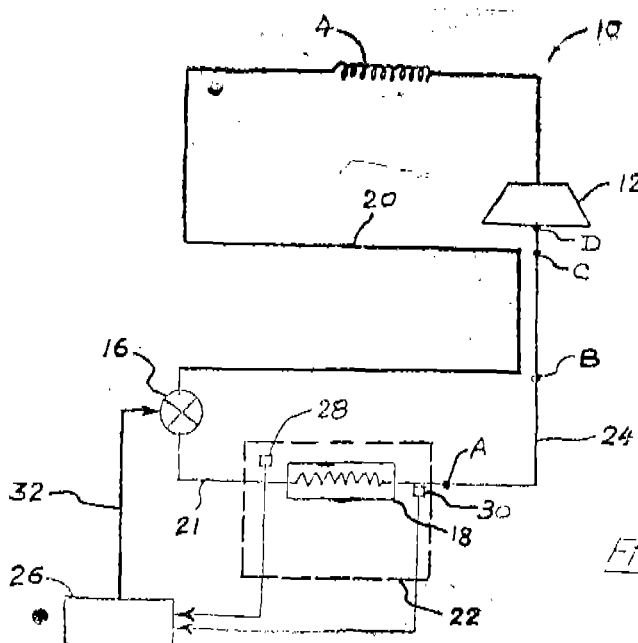


Fig. 1B

(Compl. Specn. : 17 pages;

Drgns. : 2 sheets)

Cl. : 136 C

183205

Int. Cl.⁴ : B 29 C 45/46

"A PLASTICATOR FOR CREATING A BILLET OF MOLDABLE MATERIAL".

Applicant : MODERN TECHNOLOGIES CORP., OF 4032 LINDEN AVENUE, DAYTON, OHIO 45432, USA.

Inventors :

FREDRIC LOUIS ABRAMS
ROBERT F FREUND

Application No. : 307/Cal/95 filed on 20th March, 1995.

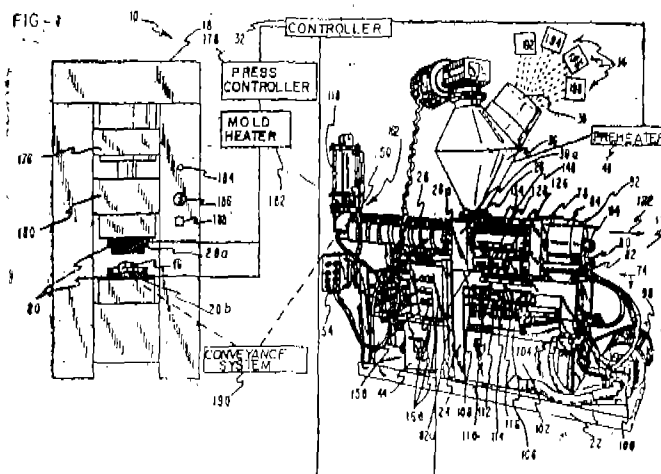
Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

70 Claims

A plasticator for creating a billet of moldable material wherein improvement comprises in providing.

a feeder for receiving a plurality of molding materials comprising a predetermined amount of a polyester, a carboxylic and glass reinforcing fibres; and

a suspender coupled to said feeder for receiving said molding materials for creating a molten suspension of said molding materials without damaging a substantial number of said reinforcing fibers and also for creating the billet.



(Compl. Specn. : 47 pages;

Drgns. : 17 sheets)

Cl. : 195 B, D, G

183206

Int. Cl. : F 16 K 17/42

"VALVE ASSEMBLY".

Applicant : BTR PLC., OF SILVERTOWN HOUSE, VINCENT SQUARE LONDON SW1P 2PL ENGLAND.

Inventors :

MARTIN WILLIAM DENMARK
PHILLIP JOHN HASELEY

Application No. : 382/Cal/95 filed on 5th April, 1995.

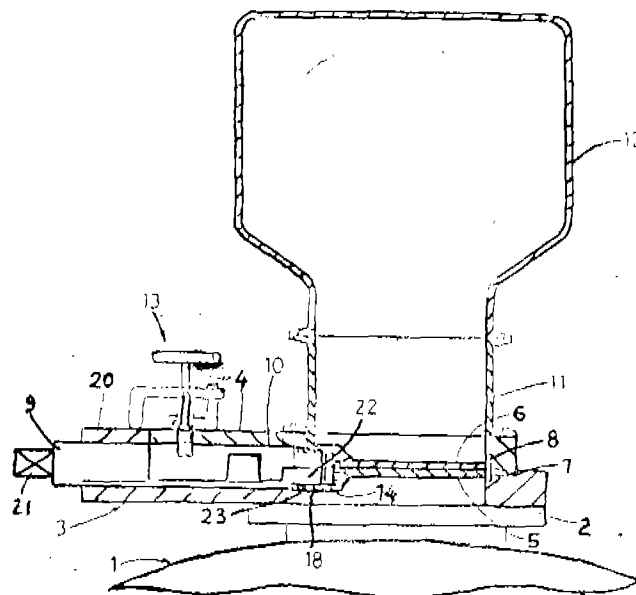
(Convention No. 9405769.1 on 6-4-94 in Great Britain).

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

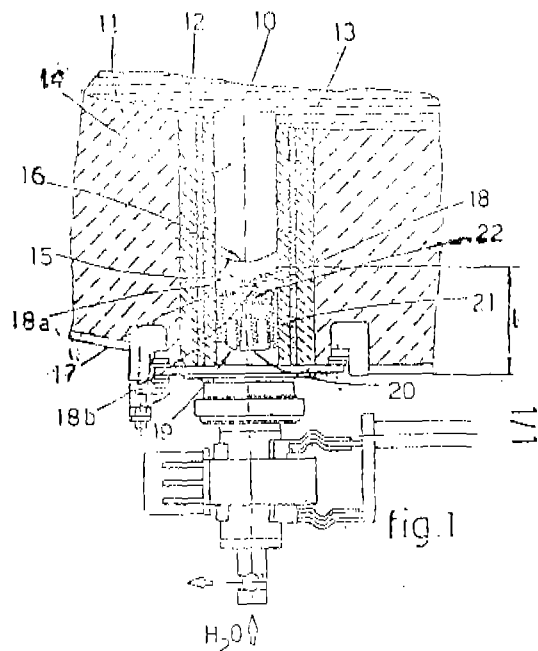
11 Claims

A valve assembly comprising a first member having a first circular aperture sealable by a first disc connected to a first shaft provided with a formation, a second member having a second circular aperture sealable by a second disc having a second shaft provided with a formation complementary to that provided on the first shaft, the first and second

members being capable of being connected together with the first disc positioned alongside the second disc with the formation on the first shaft inter-engaged with the formation on the second shaft and the first and second discs being capable of simultaneous rotation about a single axis,



cooling-water system (19) positioned below the bar (10) and in cooperation therewith.



(Compl. Specn. : 19 pages;

Drgns. : 1 sheet)

Cl. : 197

183208

Int. Cl. : C 23 G 3/04, A 47 K 1/02, 1/04, 1/08.

"A DRAIN CLEANING COMPOSITION".

Applicant : RECKITT & COLMAN INC., OF 225 SUMMIT AVENUE, MONTVALE, NEW JERSEY 07645, UNITED STATES OF AMERICA.

Inventors :

DENNIS THOMAS SMIALOWICZ

ERNEST JOHN SACHS

EDWARD MATTHEW COONEY III

Application No. : 608/Cal/95 filed on 29th May, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

11 Claims

A drain cleaning composition comprising, by weight of the composition :

(a) 0.1 to 25 weight percent of an active cleaning component constituted by :

(i) a hypochlorite-producing species, such as herein described, and

(ii) a strong base comprising one or more sodium or potassium hydroxides, carbonates or silicates;

(b) a thickening system constituted by :

(i) 0.1 to 3.0 weight percent of an alkali metal salt, such as herein described, of an N-alkyl N-acyl amino acetic acid, and

(ii) 0.05 to 5.0 weight percent of cetyl-dimethylamine oxide or of a mixture of myristyl- and cetyl-dimethylamine oxides in which the cetyl-dimethylamine oxide is present in an amount of at least 25%; and

(c) 0.0045 to 1.0 weight percent of a disulfonate, such as herein described.

(Compl. Specn. : 14 pages;

Drgns. : Nil)

3-267 GI/99

Cl. : 45 G 1

183209

Int. Cl. : E 03 B 11/16, E 03 D 1/33, F 16 K 33/00.

"A FLOAT ARM INTER CONNECTION DEVICE FOR A CISTERN INLET VALVE".

Applicant : CAROMA INDUSTRIES LIMITED, OF 10 MARKET STREET BRISBANE, QUEENSLAND 4000 AUSTRALIA.

Inventor : TIMOTHY DE PIERI.

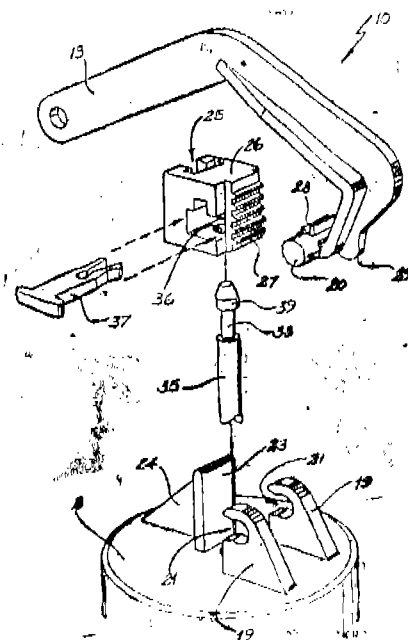
Application No. : 1058/Cal/95 filed on 5th September, 1995.

(Convention No. : PM8030 on 07-09-94 in Australia).

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

6 Claims

A float arm interconnection device (10) for a cistern inlet valve (12), said float arm interconnection device (10) comprising float arm pivoted at one end thereof on said inlet valve, a float carried on the other end of the float arm (13), and an inlet valve actuator (35) movable between valve open and valve closed positions by the pivotal motion of said float arm (13), wherein said actuator (35) and float arm (13) are interconnected via a gearing (27, 28) which converts rotary motion to linear motion.



(Compl. Spec. : 08 pages;

Drgns. : 03 sheets)

Cl. : 126 A

183210

Int. Cl. : G 01 N 73/00

"A MEASUREMENT VALUE ANALYZER".

Applicant : SIEMENS AKTIENGESellschaft, OF WITTELSBACHERPLATZ 2, 80333 MUENCHEN, GERMANY.

Inventor : HERMANN SCHEIL.

Application No. : 1288/Cal/95 filed on 24th October, 1995.

Appropriate office for opposition proceedings (Rule 4, Patent Rule 1972), Patent Office Calcutta.

2 Claims

Measurement value analyzer comprising a first comparison module (16) which is connected to a characteristic variable memory (18) for a measurement system (14) which identifies the measurement value (MW) characterized in that a second comparison module (20) which is connected to the first comparison module (16) and to a data memory (22) for measurement parameter identified independently of the measurement value (MW), from which measurement parameters a desired value for the measurement value (MW) can be derived by means of rules (R) which characterize the system process (6).

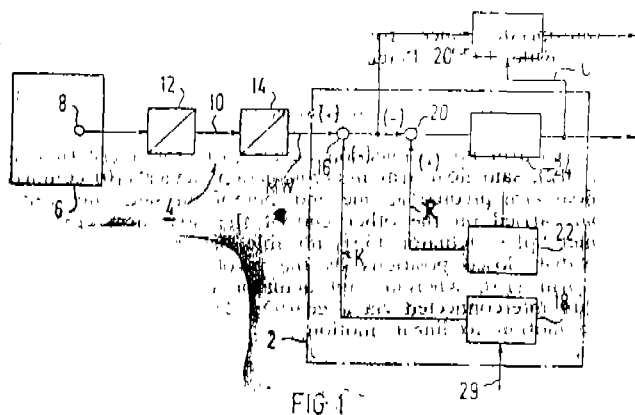


FIG. 1

(Compl. Specn. : 9 pages)

Drgns. : 1 sheet)

Ind. Cl. : 32 F 2 C

183211

Int. Cl. : C 07 C 231/24

"PROCESS FOR PREPARING AN AMIDE MIXTURE SUBSTANTIALLY FREE OF KETOXIME OR ALDOXIME".

Applicant : DSM N. V. A NETHERLANDS COMPANY, HET OVERLOON 1, 6411 TE HEEBLEN, THE NETHERLANDS.

Inventors :

1. HUBERTUS JOHANNES MECHTILDA BOSMAN
2. PAUL CHRISTIAAN VAN GEEM
3. PETRUS JOZEF HUBORTUS THOMISSEN.

Application No. 509/Mas/91 filed on 4th July 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

Process for preparing an amide mixture substantially free of ketoximes or aldoximes which amide mixture is obtained by a Beckmann rearrangement of the corresponding ketoxime or aldoxime characterized in that the ketoxime or aldoxime-containing amide mixture is subjected to a hydrolysis reaction, and that the products of the hydrolysis reaction are separated off from the corresponding amide and are returned to an oximation reaction.

Agent : M/s. DePenning & DePenning.

(Comp. Specn. : 14 pages; Drgns. : Nil (sheets))

Ind. Cl. : 40 H

183212

Int. Cl. : B 01 D 53/34

PROCESS AND APPARATUS FOR PURIFYING GAS STREAMS BY SEQUENTIAL TREATMENT WITH LIQUID REAGENTS TO REMOVE CONTAMINANTS THEREFROM.

Applicant : WHEELABRATOR CLEAN AIR SYSTEMS INC., AN ILLINOIS CORPORATION, 600 N FIRST BANK DRIVE, PALATINE, ILLINOIS 60067, U.S.A.

Inventor : 1. LESLIE C HARDISON.

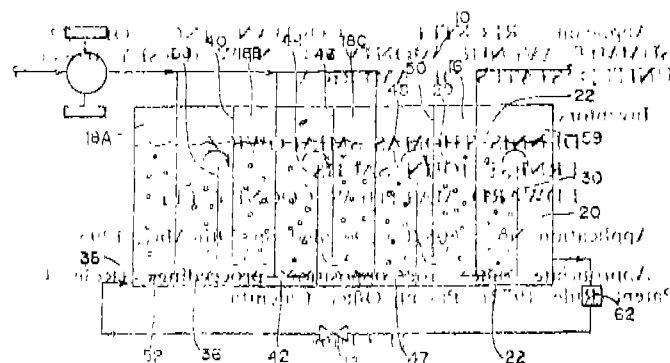
Application No. 708/Mas/91 filed on 18th September, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

24 Claims

A continuous process for purifying gas streams by sequential treatment with liquid reagents to remove contaminants therefrom comprising establishing the flow of said gases in the two mass transfer zones by means of a static pressure difference between a liquid inlet and a liquid outlet of each mass transfer zone to effect continuous circulation of liquid reagent from one mass transfer zone to the other mass transfer zone while the liquid reagent and the gas flow cocurrently in each of said mass transfer zones without mechanical pumping means; and continuously flowing liquid reagent from said second mass transfer zone into said first mass transfer zone for continuous recirculation of the said reagent to result in sequential intimate contact of said liquid reagent with said two gases, and recovering the purified gas streams therefrom.

Agent : M/s. DePenning & DePenning.



(Compl. Specn. 34 Pages)

Drgns. 6 Sheets)

Ind. Cl. : 32 F 2 C

183213

Int. Cl. : C 07 C 126/00

A PROCESS OF PRODUCING UREA AND AN APPARATUS FOR THE SAME.

Applicant : UREA CASALE S.A. VIA DELLA POSTA 4, CH-6900 LUGANO, SWITZERLAND, SWISS COMPANY.

Inventor : 1. GIORGIO PAGANI

Application No. 744/Mas/91 filed on 3rd October, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

14 Claims

A process of producing urea comprising the steps of reacting high purity ammonia and carbon dioxide in a first reaction space (SI) under known conditions of temperature

and pressure to produce a first reaction mixture (M1), withdrawing said first reaction mixture (M1) and feeding it into a urea recovery section (SE-RI), comprising the steps of :

- recovering urea (U) and a mixture (SC) including an aqueous carbamate solution from said urea recovery section (SE-RI);
- introducing said mixture (SC) into a second reaction space (S2) and reacting it therein to produce a second reaction mixture (M2);
- withdrawing said second reaction mixture (M2) from the second reaction space (S2) and recycling it to the urea recovery section (SE-RI).

Agent : M/s. DePenning & DePenning.

(Compl. Specn. 20 Pages;

Drgns. 3 Sheets)

Ind. Cl. : 136-E

183214

Int. Cl.⁴ : B. 29 C. 49/28

BLOW MOULDING MACHINE AND A PROCESS OF MANUFACTURING BLOW MOULDING LARGE VOLUME VESSELS.

Applicant : MAUSER-WERKE GMBH, OG SCHILD-GESSTR, 71-163, 5040 BRUHL, GERMANY.

Inventor : DIETMAR PRZYTULLA, (GERMAN).

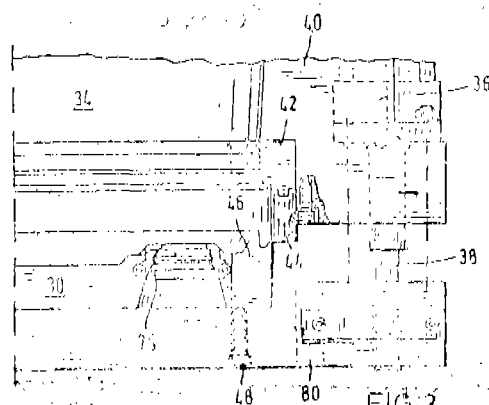
Application No. 800/Mas/91 dated : October 22, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

13 Claims

A blow moulding machine for manufacturing blow moulded large-volume vessels having an upset ring flange (58, 63), from thermoplastic synthetic material, having a blow mould (34) comprising two horizontally displaceable blow mould halves into which a tubular parison is extruded and is blown onto the contour of the vessel body, the ring flange (58, 68) being upset in the blow mould (34) at the same time by means of a mould slide (30), the blow mould (34) being constructed as a basic mould for the manufacture of a first vessel type, namely, a pluggee vessel (26, 54) having a peripheral carrying and transport ring (58) in the peripheral region of the vessel surface (56) and having at least one plug hole opening in the vessel upper surface (56), the blow mould (34) and/or the mould slide (30) being equipped, for upsetting the carrying and transport ring (58) from material of the vessel wall, with an exchangeable first ring part set (42, 44, 46) having the contour of the carrying and transport ring (58), and for the rapid change-over from the first vessel type, namely the plugged vessel (26, 54), to another second vessel type, namely a removable-cover vessel body (60), by means of the corresponding exchangeable ring part set (42, 44, 46, 50, 44, 46) which can be inserted into the blow mould (34) and can be secured within the blow mould (34), can be changed over to the vessel shape of the other second vessel type, namely the removable-cover vessel body (60) having a peripheral casing flange (68) in the peripheral region at the upper vessel orifice, the exchangeable second ring part set (50, 44, 52) predetermining the contour of the solid casing flange (68) on the removable-cover vessel body (60), and corresponding thereto.

Agent : M/s. DePenning & DePenning.



(Compl. Specn. 23 Pages;

Drgns. 5 Sheets)

Ind. Cl. : 102 D

183215

Int. Cl.⁴ : G 05 B 6/00

AN APPARATUS FOR TRANSMITTING PRESSURE DIFFERENTIAL SIGNALS IN TWO WIRE CURRENT LOOP COMMUNICATIONS SYSTEM.

Applicant : ROSEMOUNT INC., 12001 TECHNOLOGY DRIVE, EDEN PRAIRIE, MINNESOTA 55344, UNITED STATES OF AMERICA, INCORPORATED IN THE STATE OF MINNESOTA, USA.

Inventors :

- LYLE E. LOFGREN.
- JOHN P. SCHULTE.
- BRIAN SEEMANN.

Application No. 812/Mas/91 filed on 25th October, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

An apparatus for transmitting (12) pressure differential signals in a two wire current loop communications system (10) comprising a housing (31); a capacitance pressure differential sensor (30) mounted in the housing for sensing a pressure-differential and responsively changing an electrical capacitance; a fixed module (28) mounted in the housing and coupled to the capacitance pressure differential sensor for sensing the electrical capacitance of the capacitance pressure differential sensor and providing a measurement signal, the fixed module comprising connecting points at which the measurement signal is presented; means mounted on the fixed module for partially compensating for stray capacitance associated with the measurement signal; and a removable module (26) removably mounted in the housing and for electrically coupling to the connecting points of the fixed module and to a two wire current loop, the removable module having controlling means for controlling current through the two wire current loop in the response to the measurement signal and for receiving power from the two wire current loop.

Agent : M/s. DePenning & DePenning.

(Compl. Specn. 24 Pages;

Drgns. 4 Shets)

Ind. Cl. : 107-L

183216

Int. Cl.⁴ : F 02 M 31/00; F 23 K 5/00

AN INTERNAL COMBUSTION ENGINE.

Applicant & Inventor : ARUMADURA NANDESANA SILVA KULASINGHE, OF BATAGAMA ESTATE, JA-ELA, SRI LANKA, A SRI LANKAN CITIZEN.

Application No. 836/Mas/91 dated November 7, 1991.

Convention date : November 23, 1999; (No. LK 10209; Sri Lanka).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

9 Claims

An internal combustion engine, which comprises an inlet manifold (4) for including air into a cylinder constituting a combustion zone (2) for burning a liquid fuel; a heating chamber (14) having an outlet (22) connected to said inlet manifold and having an air inlet (16) and a liquid fuel inlet (20) for feeding part of liquid fuel into the chamber; a heating means (28) in the chamber to convert said part of the liquid fuel to the gas phase, the heating means comprising a heated cup (26) heated to a temperature above the boiling point of the liquid fuel such that droplets of liquid fuel received in the heated cup are converted substantially instantaneously by contact therewith to the gas phase prior to being fed to the combustion zone.

Agent : M/s. DePenning & DePenning.

(Compl. Specn. 11 Pages;

Drgn. 1 Shet)

Ind. Cl. : 32-F.4

183217

Int. Cl.¹ : C 07 C 149/00

A PROCESS FOR PREPARING AN ORGANIC SULPHURISED COMPOUND.

Applicant : INSTITUTE FRANCAIS DU PETROLE, A FRENCH BODY CORPORATE OF 4, AVENUE DE BOIS PREAU, 92502 RUEIL MALMAISON, FRANCE.

Inventors :

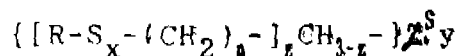
- (1) O. ABERKANE, (FRANCE).
- (2) M. BORN, (FRANCE).
- (3) J. L. MIELOSZYNSKI, (FRANCE).
- (4) D. PAQUER, (FRANCE).
- (5) D. PAQUER, (FRANCE).
- (6) G. PARC, (FRANCE).

Application No. 941/Mas/91 dated December 21, 1991.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

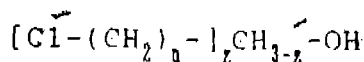
4 Claims

A process for preparing an organic sulphurised compound of the general formula

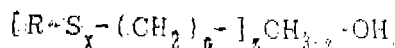


in which R is tert butyl or methyl; x is from 1 to about 3, z is 1 or 2, when z is 1, n is 1 or 2, when z is 2 n is 1, y is 1 to 3, at least one of x and y is strictly greater than 1, said process comprising :

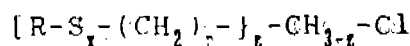
- (a) providing a mercaptan RSH;
- (b) reacting said mercaptan RSH with chloro alcohol of formula



if necessary in the presence of elemental sulfur, to yield the sulfur-containing alcohol of the formula



(c) reacting said sulfur-containing alcohol with $SOCl_2$ to yield the corresponding sulfur-containing chloro compound of the formula



and (d), reacting said sulfur-containing chloro compound with sodium sulfide or soda and H_2S , if necessary in the presence of elemental sulfur, to obtain the sought compound.

Ref. : US Patent Nos. 3, 190, 833 & 3, 994, 923.

Agent : M/s. DePenning & DePenning.

(Com : 10 Pages)

Ind. Cl. : 32 B

183218

Int. Cl. : C 07 C 2/00

A PROCESS FOR PRODUCING AN ALKYLATED ORGANIC COMPOUND.

Applicant : UNION OIL COMPANY OF CALIFORNIA, A COMPANY ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF CALIFORNIA, USA, OF 1201 WEST 5TH STREET, LOS ANGELES, CALIFORNIA-90017, U.S.A.

Inventors :

- (1) MARTIN WEST.
- (2) SUHEIL F. ABDO.

Application No. 395/Mas/92 filed on dated 29th June, 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

15 Claims

A process for producing an alkylated organic compound via alkylation and/or transalkylation which comprises contacting at alkylation or transalkylation conditions a feedback containing an alkylatable or transalkylatable organic compound with an organic alkylation or transalkylation agent, respectively, in the presence of a catalyst composition comprising :

- (a) a mixture of a crystalline, zeolitic molecular sieve possessing alkylation or transalkylation activity and at least one inorganic refractory oxide or precursor thereof, where the mixture contains from 50 up to 95 weight percent molecular sieve and from 5 up to 50 weight percent organic refractory oxide or precursor thereof;
- (b) water in an amount from 5 up to 15 weight percent based on said catalyst composition; and
- (c) said catalyst composition being devoid of hydrogenation metal components.

Agent : M/s. DePenning & DePenning.

(Compl. Specn. 32 Pages;

Drgns. 2' Sheets);

Ind. Cl. : 138 C

183219

Int. Cl.⁴ : F 16 B 21/00

"CONE TYPE CLAMPING ARRANGEMENT".

Applicant : RALPH MULLENBERG, A GERMAN CITIZEN OF IM WIESENGROUND 6 D.4048, GREVENBROICH 12, FEDERAL REPUBLIC OF GERMANY.

Inventor : (1) RALPH MULLENBERG.

Application No. : 0547/Mas/92 filed on Date 1st September 1992.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A cone-type clamping arrangement comprising :

a double-cone member (A) having first and second axially adjacent circumferential surface (9, 11) designed as self-locking cone surfaces which are arranged such that the greatest wall thickness of the double-cone member (A), seen axially, is situated approximately in its center, and a flank;

a first cone ring (B) having a cylindrical circumferential surface (17) and an opposing conical circumferential surface (15) which has a cone angle which is the same as a cone angle of the first cone surface (9) of the double-cone member (A) and which bears against the first cone surface;

a cone member (C) having a conical circumferential surface (21) which has a cone angle which is the same as a cone angle of the second cone surface (11) of the double-cone member (A) and which bears against the second cone surface, and an overlap (D) with a first cylindrical circumferential surface (23) which overlaps the cylindrical circumferential surface (17) of the first cone ring (B), and bears against the cylindrical circumferential surface of the cone ring;

axial clamping cap screws (25) which are distributed over the circumference of the arrangement and which extend through one of the first cone ring (B) and the cone member (C) and bear against the one of the first cone ring and the cone member with a head (27) and engage with a thread in the other one of the first cone ring and the cone member, and

Pressing-off means for axially removing the first cone ring (B) and the cone member (C) from one another, the pressing-off means cooperating with the flank (13', 43') to oppose the first cone ring (B) from being pushed off from the first cone surface of the double-cone member (A), the pressing-off means projecting radially in the region of a plane which is perpendicular to an axis of the arrangement;

Wherein the overlap (D) on the cone member (C) is a thin-walled extension (22) which extends in the direction of the axis of the arrangement, the thin-walled extension having a second cylindrical circumferential surface which is coaxial with the first cylindrical circumferential surface (23) and which is contiguous with a cylindrical circumferential surface (24) of a second cone ring (20) forming the cone member (C).

Agent : M/s DePenning & DePenning.

(Compl. Specn. 24 Pages;

Drngs. 4 Sheets)

Ind. Cl. : 206-E

183220

Int. Cl. : H 01 L 45/00.

ELECTRICALLY OPERATED DIRECTLY OVERWRITABLE, SINGLE CELL MEMORY ELEMENTS AND ARRAYS FABRICATED THEREFROM.

Applicant : ENERGY CONVERSION DEVICES, INC., OF 1675, WEST MAPLE ROAD, TROY, MICHIGAN 48084, U. S. A., A CORPORATION OF THE STATE OF DELAWARE.

Inventors :

- (1) STANDFORD R. OVSHINSKY, (U. S. A.),
- (2) WOLODYMYR CZUBATYL, (U. S. A.),
- (3) QIVYI YE, (REPUBLIC OF CHINA),
- (4) DAVID A. STRAND, (U. S. A.),
- (5) STEPHEN J. HUDGENS, (U. S. A.),
- (6) JESUS GONZALEZ-HERNANDEZ, (MEXICO),
- (7) HELLMUT FRITZSCHE, (U. S. A.),
- (8) SERGEY A. KOSTYLEV, (UKRAINE),
- (9) BENJAMIN S. CHAO, (U. S. A.).

Application No. 690/Mas/92 dated November 16, 1992.

Appropriate Office for Opposition Proceeding (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

16 Claims

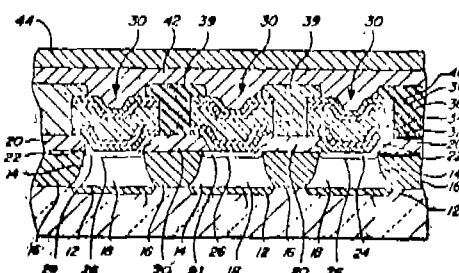
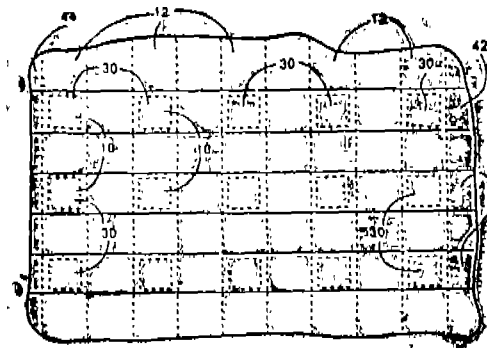
An electrically operated, directly overwritable, single-cell memory element comprising :

a volume of memory material having at least one element selected from the group consisting of Te, Se, Ge, Sb, Bi, Fb, Sn, As, S, Si, P, O and mixture or alloys thereof said volume of memory material having at least two electrical resistance values, said volume of material being settable to one of said resistance values in response to a selected electrical input signal; and

a pair of spacedly disposed contacts for supplying said electrical input-signal.

Ref. Cited : U. S. A. Patent Nos. 3,271,591 & 3,530,441.

Agents : M/s. DePenning & DePenning.



(Com. - 74 pages;

Drwgs. - 14 sheets)

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970.

In pursuance of leave granted under Section 20(1) of the Patents Act, 1970 application No. 122/Cal/89 (182031) made by CLEARANCE SEXTON FREEMAN has been allowed to proceed in the name of WATERGUARD INDUSTRIES, INC.

AMENDMENT PROCEEDING UNDER SECTION 57

In pursuance of leave granted under section 57 of the Patents Act 1970 application No. 174241 (927/Del/88) of INTERNATIONAL MOBILE MACHINES CORPORATION has been allowed to proceed in the name of INTER-DIGITAL TECHNOLOGY CORPORATION, A Delaware corporation, located at 913 Market Street, Suite 802, Wilmington, Delaware 19801, United States of America.

The amendments proposed by COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, in respect of patent Application No. 176550 (1209/Del/90) as advertised in part III, Section 2 in the Gazette of India on May 3, 1997 and no opposition being filed within the stipulated period, the same amendment have been allowed.

In pursuance of leave granted under Section 57 of the Patents Act, 1970 application No. 171412 (Application No. 558/Del/87) of CRANE RACKING LTD., a British company, or Crossbow House, 40 Liverpool Road, Slough SL1 4GX, England, has been allowed to proceed in the name of JOHN CRANE UK LIMITED, a British company, of Crossbow House-40 Liverpool Road Slough SL1 4QX England,

The amendment proposed by MECHANICAL TECHNOLOGY INCORPORATED a corporation organised under the laws of the State of New York, United States of America, of 968 Albany-Shaker Road, Latham, New York 12110, United States of America, in respect of Patent application No. 372/Del/85 (Patent No. 162450) as advertised in part III, Section 2 in the Gazette of India on 10-09-1988 and no opposition being filed within the stipulated period, the same amendment have been allowed.

RENEWAL FEES PAID.

181210 181142 176798 174735 174492 174275 178906 178007
171274 181037 172824 168471 167902 167707 171901 175695
176793 177288 174372 175676 171436 171668 177286 176817

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181674 181601 172529 181342 181351 181383 181468 181538
181645 181713 181720 181750 181778 181918 181919 170233
171829 173035 173663 175989 176497 177870 178315 179815
181631 181659 181779 181869 181888 181925 181955 175683
179068 177104 174960 176318 179235 179433 180258 167108
180774 177212 168179 169698 169699 166405 175775 181715
181708 181890 181812 179927 176239 181680 181671 181808
179129 167866.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL ENG. INDUSTRY LIST No. 11

The following Patents in the field of Mechanical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act 1970 in respect of Calendar Year 1996 generally on account of want of request for licenses to work the Patented Invention Persons who are interested to work the said patents commercially may contact the patentees or the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1	2	3	4
154495	31-07-1982	AE Plc of Cowston House, Cowston Rugby Warwickshire England	PISTONS FOR INTERNAL COMBUSTION ENGINES.
156648	17-12-1982	AE Plc a British Company.	Annular spacer-exponder for spacing and positioning two rails in a piston ring groove of a piston or an internal combustion engine.
157758	16-12-1982	Do.	Process for nitro-carburising metal rings of generally rectangular across sectional for use as piston rings or sealing rings.
161433	21-06-1984	Do.	A system for machining a surface of a work piece rotating about an axis
161450	04-07-1984	Do.	A method for manufacturing a composite strip for a plain bearing.
162138	04-08-1984	Do.	A piston assemblage for an internal combustion engine and a method of making it.
162969	03-10-1985	AE BISHOP 19 Buffalo Road Gladsville, New South Wales, Common-Wealth of Australia.	A Die head for a rollimprinting machine.
166217	22-10-1985	AE plc England.	A bearing.
166564	16-12-1985	AE plc & Dresser Industries Inc.	The process for the production of a bearing.
166595	05-02-1986	AE plc.	Disposable cartridges for centrifugal separators.
172516	14-06-1989	Albert Edward Rex, of 205, Churchil Road Prospects S. Australia -5082 Australia.	Clip for use in a resilient rail fastening system.
175628	14-06-1989	Do.	A stud insert for use in a rail fastening system.
174185	16-11-1988	Alsthom	A motor system for a railroad switch.
174997	03-05-1990	Allsup Inc. of 4201 Meridian Bellingham WA 98226 USA.	A Vehicle seat support.

1	2	3	4
168305	04-02-1987	Alstom.	A device for ventilating at least one of a fluid radiator unit and a starting and breaking rheostat unit located proximate to the roof of an electrically powered unit.
153021	11-06-1982	Ashok Metal Industries Society Rajkot 360001 Gujarat India. United Containers & Costers 5A Pachavati Society Rajkot 360001 Gujarat India.	Improvements in or relating to multiwick liquid fuel such as kerosene stoves.
165049	03-10-1987	Arthur Ernest Bishop 19 Buffal Road Bladesville, New South Wales, Australia	Apparatus for imprinting of edges of grooves in valve cores for Rotary valves for use in power steering gear.
176288	7-12-1991	Atlas Copco Tunneling & mining AB, of S-105-23, Stockholm, Sweden.	Method of manufacturing a rock bolt.
162750	15-01-1985	Axel Johnson Engineering of Hamngatan, 60, S-14900, Nynashamn, Sweden.	A plate pack for a lamella separator.
163337	01-05-1985	Do.	An apparatus for a separating suspended or emulsified matters in liquids.
172635	16-12-1987	Bergwerksverband, West Germany.	Coking Apparatus
170773	09-06-86	Berud Hansen	Process and apparatus for manufacturing filled containers of heat-sealable material and containers thereby produced.
170804	30-09-88	Berud Ostermeyer of Stuart Highway Berrimah Northern Territory, Commonwealth of Australia.	Side Tipper support system.
174291	18-08-89	Berud Hansen of Heerstrasse -16, 7166, Sulzbach-Laufen 2, Fed. Rep of Germany.	Process for producing hollow plastic receptacles.
170727	04-04-89	Boliden Allis Inc of Box, 14888, Milwaukee, Win Cousin, 53215-0999, U.S.A.	Seal for rotating cylinders such as kilns & the like.
159528	17-12-84	Borden Inc. of 180 East, Broad, street, Columbus, Ohio-43215, U.S.A	A process for making foundry cores or molds.
168680	01-04-87	—do—	A process for making a body that can be pyrolyzed to form an electrode suitable for use in the electrolytic production of metal.
157859	10-03-83	British Steel Corp., Albert Embankment, London SE1 75N, England.	Apparatus for the shaping of material such as metals, as well as castable non-metallic materials such as glass.
170573	09-12-87	British American Tobacco Co. Ltd., P. O. Box 482, West Minister House, 7, Millbank London, SW1P, 3JE, England.	Improved tobacco expansion apparatus.
170127	05-08-87	Brown & Williamson Tobacco Corporation, U.S.A. of 1500, Brown & Williamson Tower, Louisville Galleria, Louisville, Kentucky-40202.	A filter for a cigarette.
169051	03-05-88	B.V. Optische Industries, Van Mierere 9, 2612, Xe, Delaf. The Netherland.	
169731	29-03-88	—do—	
158919	19-12-83	Dr. C. Otto & Comp. GMBH Postfach D-4630, Bochum, 1, West Germany.	
167989	19-10-87	Caroma Industries Limited, 76 Magill Norwood, South Australia 5067, Aus	
169896	14-03-88	Chinese Petroleum Co., Industrial Tex of 83, Sec. 1, Chung, Taipei, Taiwan, Republic of China.	directly in to cylinder of gasoline engine.

1	2	3	4
156557	20-05-82	Clayton Dewandre Co. Ltd, P. O. Box 9, Titanic Works, Lincoln, LNS 7JL, U.K.	An improved reciprocating exhaustor driven by diesel engine.
171543	03-01-89	Colortronic GMBH of Otto-Hahn-Strasse-20, 6382, Friedrichsdorf 2, West Germany.	Cutting mill.
171802	20-12-88	Compak System Ltd., of Torr Street, Gainsbrough, Lincolnshire DN-21, ZEG, England.	Apparatus or laying a matt of fibrous materials.
162153	22-12-83	Copeland Corporation, Combell Road, Sidney, Ohio-45365, U.S.A.	Scroll type machine.
162154	13-01-84	—do—	An orbiting scroll compressor.
162861	12-01-84	—do—	A motor compressor.
169065	17-11-88	Copeland Corporation, Combell Road, Sidney, Ohio-45365, U.S.A.	A motor driven compressor.
169693	26-08-88	—do—	A rotary mach
170647	31-10-88	—do—	Scroll compressor.
170806	18-11-88	—do—	Scroll machine.
170869	27-02-89	Copeland Corporation of Delaware-1675, W-Campbell Road, Sidney, Ohio-45365-0669, U.S.A.	Refrigeration Compressor.
175033	24-12-90	—do—	A refrigeration system.
164349	28-11-86	Crown Gear, B.V. Schuurdijk -145, 3063, NH Rotterdam, Netherlands.	Face gear transmission for Exes intersecting or crossing each other.
175952	12-11-90	Dallaire Industries Ltd., of 8650, Boul De, LA-Rive-Sud, Levis Lauzon, P.Q. Canada.	Ventilated sliding closure assembly.
159737	13-07-83	Dallchl Engineering Co. of 917, KODA-CHO, Kawashima-Cho, Hashima-Gun, Gifu-Ken, 483, JAPAN.	Squeeze Pump.
167105	11-08-87	Dallaine Industries Ltd., 8650 Boulevard De La Rive Sud L vis Lauzon Quebec G 6V7M5, Canada.	An improved window construction
169695	30-08-88	Danieli & Coficine Meccaniche SPA, of Via, Nazionale-33042, Buttrio (UD), Italy.	Immensed teeming nozzle.
165691	01-01-87	Dansk Industries Syndikat, A/S, of Herlev Hovdgade-15-17, Herlev-2730, DENMARK.	A moulding system for making mould parts
164736	22-01-87	Do.	A core setter for use in placing one or more cores in the mould impression.
169092	18-11-86	Darya Paye Jetty Co. Ltd., Ellens Cottage, Walton Farm, Bakesbourne, Canterbury, Kent, Great Britain.	A device for constructing rigid structure upon the bottom of a body of water.
174464	18-11-86	Do.	Method of Constructing a rigid structure upon the bottom of a body of water.
175914	07-11-90	Do.	A method of constructing a column-like marine structure including a column and apparatus for performing the method.
164368	20-05-86	Dagussa AG, Frankfurt/Main, 6450 Hanau 1, Postfach 1345, Fed. Rep of Germany.	Process and apparatus for producing carbon black.
165739	17-07-86	Do.	Apparatus and process for producing carbon black.
168832	26-11-86	Do.	An atomizing nozzle and a process for forming anatomite by the use of said nozzle.
170635	12-12-88	Do.	A process for the treatment of hardening shop effluent.
175595	19-04-90	Do.	A device for the catalytic purification of the exhaust gases of internal combustion engines in particular two stroke engine.
175976	20-02-91	Do.	A method of uniformly coating a ceramic or metal honey comb member with an amount of solid particles from a coating dispersion slurry.

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158890	06-08-83	Dellorto, S.P.A.	Carburetor for internal combustion engine.
174758	31-10-91	Dellorto, S.P.A. of Via, S. Rocco, 5-20038, Seregno (milano) Italy.	Thermostarter or carburetors of internal combustion engine.
162307	14-11-84	Didier-Werke AG of Lessingstrasse-16,18, D-65189, Wiesbaden, Fed. Rep. of Germany	Closing plates made of fire-resistant material for liner or rotatory slidevalve, shutters.
169834	29-03-89	Do.	Devices for converting solar energy into process heat.
163092	01-02-84	Eirich Hubert, ET, AL of Sandweg-16 Hardheim, F.R.G. of Germany.	Apparatus for treating materials which are capable of flow.
171913	06-05-89	Elopak systems AG, of Flugghofstrasse, 39, CH-8152 Glattbrugg, Switzerland.	Method of sterilization of packaging materials.
172561	20-02-89	Emitec Gasellschaft, W. Germany.	Assembled drive shaft and process for producing same.
173192	12-09-89	Do.	An assembled Crankshaft and process for producing same.
173275	26-10-89	Do.	A hollow composite member.
173414	20-07-89	Emitec Gesellschaft, Fur Emissionstechnologie MBH, of Hauptstrasse-150, D-5204, Lohmar 1, West Germany.	Process for producing individual cans from cast materials.
174463	1-11-90	Emitec Gesellschaft Fur Emissionstechnologie.	A crankshaft with hollow pins.
166633	25-03-86	EMS — Inventa AG	Apparatus for cooling and conditioning meltspun material.
168221	18-03-87	Do.	Apparatus for cooling and conditioning meltspun filaments.
167866	17-09-87	Emitec Gesellschaft Fur Emission, Technologie MBH Hauptstrasse 150, 5204, Lohmar 1, West Germany.	Process for producing an assembled camshaft.
169514	19-05-88	Do.	A method of securing a drive element of a hollow shaft to form an improved drive assembly.
169579	19-05-88	Do.	A hollow drive shaft assembly having shaft and drive elements.
170648	03-11-88	Do.	Method of assembling crankshafts and crankshafts thereby produced.
170886	22-12-88	Do.	An assembled shaft.
170888	17-02-89	Do.	Gearwheel.
170925	25-11-88	Do.	Method for assembling crankshafts and the like.
170936	06-01-89	Do.	Assembled shaft especially camshaft, Crankshaft or Driveshaft.
171473	06-02-89	Do.	Assembled drive shaft.
171744	19-09-89	Do.	An assembled shaft.
173287	06-10-89	Do.	Method and arrangement for making interconnected tubular members.
174122	11-12-89	Do.	A process for producing an assembled shaft.

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169028	21-03-88	Ethicon.	Surgical hemostatic lips.
159239	15-02-83	Ethicon Inc. Route No. 22 Somerville New Jersey, U.S.A.	A repeating scissors-type medical instrument for applying a plurality of ligating clips serially.
160327	28-05-84	Do.	A hemostetic clip made from a polymeric material.
161578	24-01-84	Do.	A sterile surgical unitary fastener for join- ing animal or human tissues.
171057	11-03-88	Do.	Tapered I-beam surgical needles.
164595	09-07-86	Do.	Improved suture retainer for multi-strand sutures with single strand of suture dis- pensing.
165375	03-07-85	Do.	A surgical instrument for joining tissue by means of two-piece fasteners.
173059	04-07-89	Do.	A trocar.
173149	04-07-89	Do.	Improved safety trocar.
173855	10-11-89	Do.	A method of forming a drive system.
167867	25-09-87	Fabrique Nationale Herstal, 4400 Herstal Belgium.	Teles copic grenade.
172008	01-06-80	FACET Enterprises Inc. of 2 Warren, Place Suit-1000, 61005, Yale AVE, OKLAHOMA- 74136-1988, U.S.	Fluid Filter and method for manufactur- ing same.
162914	20-02-85	Perodo Ltd. of 201 M ry's Parsonage, Man- chester, M3, ZNL, England.	Method for the manufacturing of a non-asbestos Clutch facing.
175996	12-02-91	Flamagas S.A. of sales, 1, Ferrer 7, Burelong- 08026, Spain.	Liquified gas kitchen lighter.
164901	10-02-86	Flavourtech Pty Ltd. C/o Higgins Ploss & Co. Banner Avenue, Griffith NSW 2680, Australia.	Counter Current Contracting [device.
162738	13-01-89	Flexitallic Ltd. of Station Lane, Hackmon- dwick, West Yorkshire, England.	Improved gasket materials and gaskets prepared the reform.
166106	05-05-86	Do.	A method and apparatus of producing a spiral wound gasket & gasket of a 51 product.
171458	13-01-89	Foseco International Ltd. of 285, Lons acre Nechells, Birmingham-B7, 5JR, England.	Molds for metal casting.
176139	07-07-89	Fosroc,	Method for the production of an improved water retaining in fill for use in the back- filling of underground voids in mines tunnelling and similar formations.
171443	15-11-88	Fried Krupp. Gmbh, mit. Beschränkter, Haftung of Altendorfer Strasse-103, D-4300, Essen 1, F. R. Germany.	Crusher unit for use in a mobile crushing system.
165352	10-03-86	Fritz Studer AG, 3602 Thun, Switzerland.	A process for manufacturing concrete polymer machine parts and machine parts made of concrete polymer.

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168944	23-10-87	Fujikura Limited, 5-1 Kiba-1-chome, Kohtohku, Tokyo, Japan	An insert part for sealing cable junctions
169079	23-10-87	Do.	An assembly for sealing cable junctions.
171973	11-01-89	G. Eirich, Maschinen-fabrik of Walldurner Str. 50, 6969, Harheim, West Germany.	A method of drying wet material.
161049	22-05-84	GEA Gmbh, Kongsallee 43—47, 4630 Bochum,	Heat Exchange.
163995	17-05-85	GEA Luffkuhleregesellschaft Happel Gmbh & Co. 43—47 Kongsallee 4630 Bochum' Republic of Germany,	Device for transferring the cooling water of a wet cooling tower or a wet/dry cooling tower to a recycling system for water distribution.
163373	15-04-85	General Electric Company, USA	Continuous metal tube casting method apparatus & products.
164073	12-04-85	Do.	Electromagnetic levitation casting apparatus having improved levitation soil assembly.
174838	03-08-90	Garnold Townsend of P.O Box-232, Waterford, Ohio, 45786, USA.	A seal for a regenerating heater.
1732282	08-08-89	General Electric Company, of 1, River Road, Schenectady-5, New York, U.S.A.	A gas turbine engine.
173307	16-03-90	Do.	Axisymmetric Vectoring exhaust nozzle.
175972	28-05-90	Gerardus, Anthonous Maria Boots of Boskriex 72, 5401 LP, Uden, The Netherlands.	Package for transporting and storing bulk goods
165459	25-08-86	Halvor Forberg of Hagabakken, 2, Hegdal. N-3250 Larvik, Norway.	Machine for mixing particulate materials.
150094	03-09-83	Dr. Hans-George, Bochm of Kellegrundweg 13, 6242 Kronberg/Tannus West Germany.	Seam Pressure Cooker.
161746	31-01-84	H. Erich, Sandweg 1, 6959 Hardheim, West Germany	Method of Regenerating old casting sand and apparatus for carrying out the method.
167353	13-03-87	Hangesund Mek., Verksted A, N-5500, Hangesund, Norway.	A method for constructing huge modules and a module constructed by said method.
160968	02-01-84	H.P.W. Eirich.	Apparatus for closing and continuous by emptying container of treatment machine.
171781	16-01-87	Hari Krishan, 9/270, Dakshin Puri Extension, New Delhi-110062, India.	A sterling engine.
160208	16-04-84	Heinz Kaiser AG, Glattalstrasse 837, 8153, Rumlang, Switzerland.	Boring tool
160461	08-05-84	Do.	Tool part in combination with a Connecting shaft of a machine tool.
174598	22-02-91	Hitachi.	Variable displacement bent axis type hydraulic machine.
175334	11-07-90	Do.	Bent axis type variable displacement hydraulic machine.
170930	06-03-89	Hoesch Maschinenfabrik, Deutsch Land A.G. a West Germany.	Lathe for machining the brake discs of a wheel set removed from a track vehical
172357	04-07-89	Hoesch,	Under floor wheel-set turning machine for reprofiling the wheel tyre cotours of Rai-way wheel set.

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176183	18-02-91	Hoesch Maschinfabrik, Deuthland, AG.	Underground wheel set lathe for reprofiling the wheels of railway wheel sets
164599	17-11-86	Hoerbiger Ventilwerke, Aktiengesellschaft, of 23 Braunhubergasse Vienna-A-1110 Austria.	A nonreturn valve.
170938	01-06-89	Do.	Ring Valve.
162387	16-09-85	Hoesch AG	Track spike with a single or double shaft.
163768	20-03-86	Do.	Underfloor wheel set turning machine for reprofiling wheel tyre contours of railway wheel sets.
167729	17-12-87	Hyderabad Industries Ltd. Sanatnagar, Hyderabad-500018, Andhra Pradesh, India.	Improvements in or relating to cast iron detachable joints or joining pipes particularly pressure pipes like fibre cement pipes, cast iron pipes and the like
165958	07-01-86	Imperial Chemical Industries Plc, of Imperial Chemical House, Mill Bank, London, SW1P, 3J, F, England.	Apparatus for effecting direct contact between a gas & liquid.
166369	28-02-86	Imperial Clevite Inc.	Cast metal composite article.
173581	05-06-89	Impuls-Apparatebau Jaeger Sohn-GmbH Industriegebiet, Pinache D-71 & 30, Muhlaacker West Germany	Apparatus for bonding flat textile cuts.
169872	10-08-87	INCO Alloys, International Inc. of Huntington West Virginia, 25720, USA.	A process for producing a nickel chromium alloy.
173591	13-03-92	Indian Oil Corpn.	A flow improver for diesel fuel.
175461	12-04-93	Indian Oil Corporation Ltd., C-9, Ali-Yavar Jung, Marg, Bandra (East) Bombay-400051, India, Maharashtra.	An improved hurricane lantern.
160384	28-01-84	Interlego AG, Sihlbruggstrasse 3, 6340 Baar, Switzerland.	Toy Building blocks.
160983	30-01-84	Do	Toy Building blocks.
167683	12-02-87	Do.	Toy track for toy vehicle.
167958	14-07-87	Do	Toy Cog railway.
165377	01-08-85	Inte-steel Technology Inc., 3041, Shalwood Lane, Matthews, North Carolina 28108, U.S.A.	Method for continuous steel making in electric furnaces.
166886	01-08-85	Do.	Apparatus for the continuous refining of steel.
167251	30-04-86	International metals Reclamation Co. Inc.	A rotary hearth employable in a rotary hearth furnace.
152572	28-11-86	Inventa AG, Switzerland.	Process for continuously producing stretched polyanide 6 filament yarns of polymade-6 meets.
166198	14-01-88	J.F. Adolff, AG, of Eugen-Adolff-strasse-120, 7150-Backnang, West Germany.	Method for manufacturing a web of plastic turf for sports grounds.
170638	12-04-91	J & M Turner, Inc. of 1300, Industrial Boulevard, Southampton PA-18966, U.S.A.	A pre-load indicating washer and a joint assembly comprising the same.

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169680	10-08-88	Kabelmetal Electro.	Process and apparatus for the manufacture at a longitudinal, seam welded tube.
174800	11-12-90	Kabelmetal Electro, Gesellschaft, Mit, Beschränkt von Kabelkamp 10, D-3000 Hannover 1, Republic of Germany.	Device for the drawing off and/or guidance of elongate products.
172864	27-01-89	Koninklijke En ballage Industrie Van Leer, B.V. of Amsterdamseweg-206, 1182HL, Amstelveen, Netherland.	Method for producing a container having an improved closure and the container produced in the method.
168945	02-11-87	Kotaoka Machine Co.Ltd. of 1491 Ohmachi, Toyookoka-cho, yomishimq-Shi Bhime, Japan.	Web dividing and recoiling machines.
168251	25-09-87	Koya Sangyo Company Ltd of 9-9 Kajcho, 1-Chome, Chiyodaku, Tokyo, 101, Japan	Method for the preparation of laminated material and laminated material obtained thereby.
159619	07-06-83	L' Air Liquide Societe Anonyme Por L' Etude Et. L' Exploitation, Des Procedes Geroges Claude, 75, Quaid, Orsary-75007, Paris' France.	Improved thermally insulated container.
160210	07-05-84	LiAIR Liquide, 75, Quasi d'orsay--75007, Paris, France.	Hydrogen concentrating process and apparatus.
160331	17-02-84	Do.	Apparatus in Particular a reactor for purifying fluid by absorption.
160739	25-06-84	Do.	Proces and device for vapourizing liquid by heat exchange with a second fluid and their application in an air distillation installation.
166224	15-04-86	Do.	A reservoir for cryogenic fluid.
166987	25-03-86	Lacrex Brevetti SA, of Via, Eco, 53-6644, Orselina, Switzerland.	Device for pre-heating liquid such as liquid fuels.
168594	02-09-86	Do.	Device for preheating liquid fuels used for combustion and for powering engine.
176778	29-10-90	Do.	Apparatus for detachably clamping tensioning and securing ropes cables wires belts or the like.
166051	03-05-87	Lanxide Technology Company, LP, 1300, Marrows Road, New yark, U.S.A.	Method for producing self supporting body.
167358	04-05-87	Do.	Method of making shaped ceramic composites with the use of a barrier.
167472	04-05-87	Do.	A method of producing ceramic composite body of desired shape.
167563	04-08-87	Do.	Method of producing a self supporting ceramic structure.
167923	01-06-87	Do.	Method of making ceramic composite articles with shape replicated surfaces.
167986	07-09-87	Do.	A method producing bonded ceramic bodies.
168229	16 12-87	Do.	Method of making shoped ceramic composites.
17152	21-12-88	Do.	Method for producing a self-supporting body.

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172869	29-09-89	Lanxide Technology, Company, LP, 1300, Marrows Road, Newyark U.S.A.	A method for making metal matrix composite bodies containing three-dimensionally interconnected comatrices.
173050	01-12-89	Do.	A process for preparing self supporting bodies.
173135	29-09-89	Do.	A method of forming a metal matrix composite body by a spontaneous infiltration technique.
173137	01-11-89	Do.	A method of making metal matrix composite.
173197	01-12-89	Do.	Method of modifying self-supporting composite bodies by a posttreatment process.
173214	29-09-89	Do.	A method for making a metal matrix composite.
173245	29-09-89	Do.	A method for making a metal matrix composition.
173246	29-09-89		Method of forming metal matrix composite bodies.
173274	29-09-89	Do.	Method for making a metal matrix composite body.
173285	29-09-89	Do.	Method of making metal matrix composite body.
173286	29-09-89	Do.	Method of making metal matrix composite body.
173288	01-12-89	Do.	A process for preparing self supporting bodies having controlled porosity and graded properties.
173381	29-09-89	Do.	A method for forming metal matrix bodies.
173433	29-09-89	Do.	Method of making metal matrix composites.
173434	29-09-89	Do.	A method for making a metal matrix composite.
173541	29-09-89	Lauxide,	Method of making metal matrix composite bodies.
173632	29-09-89	Lauxide Technology	A method for forming a method matrix composite body by an out side in spontaneous infiltration process.
173743	01-12-89	Do.	A method of producing a self supporting macro-composite ceramic body.
173821	01-12-89	Do.	A method of producing self supporting body.
173822	01-12-89	Do.	A method of producing self supporting ceramic body comprising aluminium titanate.
173898	01-12-89	Do.	Method for producing self-supporting body.
174365	06-07-90	Do.	Method of producing ceramic composite bodies.
174446	16-07-90	Do.	A method forming macro-composite bodies self-generated vacuum techniques.
174541	09-09-87	Do.	Method for producing a self-supporting ceramic body.

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75779	07-11-91	Leiras OY of pendionic, 45-47, FIN-20210, Tutku, Finland	Equipment for filling capsules.
75979	27-03-89	The Lemna Corpn. of 1408, Northland Drive-102, Meadota Heights, Minnesota-55120, U.S.A.	A floating aquatic plant containment system.
63968	09-07-86	Les Entreprises TrittonL 10775 Racette Avenue Montroal North Quebec Canada HIG SH 5	Improvements in or relating to a seal suitable for locking containers e.g. boxes, trucks zippered containers and the like
65422	16-07-86	LES Entreprises Tritton Ltee, 10,725, Racette Do.	Shackle type seal.
74545	23-05-90	Luis Perez Barrenechea of parque-central Edit, Cautche, Piso -9, Apto, M-caracas 1010, Ven-zuela	Process for manufacturing concrete additions.
66421	16-10-86	Louis Worms of Fruithoflaan-107, 8b, Box, 114, 2600, Ber chem, Belgium	Hydraulic turbine
161913	06-12-85	Madam Mohan Parui of 71A, Netaji, Subhash Rd., 1st floor, Room No. B-18, Calcutta-700001, State of West Bengal, India	Improvements in or relating to rice hulling machine.
160118	12-03-84	M.A.N. Maschinenfabrik Augsburg Nunbery Akti-engesellsehaf & a German company	On-masse conveyor for vertical or steel delivery of bulk-material.
175420	11-05-90	Man, Gulehoffnugsh-Lette	A caterpillan mounted self propelled continuously operating opencast minning machine.
166468	05-03-87	Macrotech Fluid sealing Inc., of 1750, West fifth south, Salt, Lake City, Utah-84104, U.S.A.	A composite seal assembly
173660	01-02-90	Man Gutehoffnungs Huett Ag.	A piston ring connection between an inner housing and an outer housing of a steam turbine
169109	12-03-87	Mannesmann AG of Mannesmannufer, 2, D-400, Dusseldorf 1, Federal Republic of Germany	An improved double-walled coke quenching Car.
169976	02-09-87	Do.	Device for adjusting throat armour in shaft furnaces.
170885	27-10-88	Do.	An improved submersible control device.
172153	29-06-88	Do.	A mold for continuous casting of thin slab in gots.
173065	16-05-89	Do.	An improved method for continuous casting of metal products.
173366	28-03-89	Do.	A plant for the producing of hot-rolled steel band.
174083	18-05-89	Do.	A continuous process for the production of steel strips or sheet steel & an apparatus for the same.
175161	04-07-89	Do.	An improved method for producing thin slab ingots of metal such as steel box continuous casing.

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166297	05-11-85	Max pasbring of Via, Eco-53, CH-6644, orselina, Switzerland.	A universal wrench.
171557	12-06-89	Merpro Tortek Ltd. of Brent Avenue, Forties Rd. Industrial Estate, Montrose, Angus, DD-10, gja Scotland.	Method and apparatus for conveying materials in bulk of liquid pressure.
165413	23-10-86	Metallgesellschaft AG of Reuterweg, 14, D-6000, Frank Furt, an Main, West Germany.	Combined gas and steam turbine plant.
161917	07-02-86	Metallurgical & Engineering Consultants (India) Ltd., Ranchi-834002, Bihar India.	Blast furnace cast house runner system.
162599	05-06-86	—do—	Improved coke-oven door and coke ovens having sudy improved doors.
166070	31-08-87	—do—	System for detecting leakage of water from blast furnace tayer(s).
167929	24-09-87	—do—	Apparatus for depositing continuously an extruded elastomeric material on the interior of a continuous tubular woven fabric in a loom.
161128	01-06-83	Mitrex International B. V., Wilfreid-strasse 12, Zurich 8032, Switzerland.	Apparatus for generating a reducing iron-oxide.
171920	12-11-90	Minato Co. Ltd., 1-5-10, Motoakasaka, Minato-Ku, Tokyo, Japan.	Process for preparing germ free environment such as air or water.
163083	14-10-95	Munters Euroform, GmbH, W. Germany.	Spacer for mist eliminator.
173547	07-09-90	—do—	Fin pack for heat and mass transfer.
174996	03-08-90	—do—	Battle plate thickener.
176309	19-11-91	Nash Engineering Co.	Liquid ring pumps.
164887	26-06-85	Neil Howard Joseph, 195, 423, C/o. Aramco, P. O. Box, 82-41, Dhahrau-31311, Saudi, Arabia, US.	A device for drawing aqueous humour form an eye.
171826	21-03-89	NGK, Insulators, Ltd., of 2-56,	Lightening arrestor insulator and method of producing the same.
176209	01-11-91	Nico Pyrotechnik Hanns JU of BEI Der, Geuermerkerei-4, D-2077, Tritau, Germany.	Under calibrated shell for recoilles training weapons.
174144	27-02-90	Nissei ASB Mochine Co. Ltd., of 4586-3, Koo, Komoro-shi, Nagano-Ken-384, Japan.	Apparatus for converting thermoplastic blanks into shaped articles.
171219	16-02-88	Nitro Nobel, AB, of S-710, 30, Gytterp, Sweden.	A firing anit for initiation of detonators.
169169	23-02-87	Northern Engineering Industries Plc, of NEL, House, Regent, Centre, New-Castle upon, Eyne, NE-3, 35B, England.	ARC interrupter.
169227	23-02-87	—do—	Arc interruptor.
173576	03-03-89	—do—	Improvements in burners.

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164669	24-03-88	Otto India Pvt. Ltd., 9, Camac Street, Calcutta-700017, West Bengal State, India.	A flexible door for coke ovens.
164732	19-01-87	—do—	A novel system for achieving alignment and interlocking between pusher car and lock guide car on pusher and lock sides respectively of an oven chamber of a lock oven.
165705	14-08-86	—do—	Coke quenching Car.
169095	10-11-87	—do—	Device for dry cooling of coke.
170882	22-04-88	—do—	Method of and apparatus for producing called and dust free coke from high temperature coke.
172718	27-03-90	—do—	Process for producing dryquench coke in a coke coaling shaft a device for the X Cptol implementation of the process.
174662	16-02-92	—do—	A mechanised drag plough extractor system.
174663	21-12-92	—do—	A coke breeze reclaiming system.
161144	05-06-85	Outokumpu OY, of Tooloukatu, 4,00100, Heisinki, Finland.	A method of an apparatus for batch preparation and feeding into smelting Process.
174394	13-03-92	Outokumpu Minctec OY of ESPOO, Finland.	A Flotation machine.
164694	28-02-86	Paques B.V., T-de Boerstreet 11, 8561 EL BALK, the Netherlands.	Device for the anaerobic purification of waste water.
164788	24-07-85	—	Anaerobic purification equipment for waste water.
164137	22-05-86	Paul Eirich ET Al.	Pressure resistant mixer.
166714	26-11-87	Peter Jansson, 33 Penkivill Street, Willoughby, New South Wales 2068, Australia.	A wind turbine.
164975	31-12-85	Societe Princina Recherche Development, and Government Monegasque.	A device for attenuating sea swell in a site for protecting said side.
172398	03-04-90	Punya Brata Chaudhuri of Phik, G-26, 60219, Norrkoping, Sweden.	Domestic cooking system utilising solar heat with in built heat storage arrangement.
172343	20-02-89	Ralph Habel Hoyer of 80 Somerville Ave, Westmount, P. G. H32, 1J5, Canada.	Perpetual yearly/monthly calendars.

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165338	03-12-85	RCA, Corporation of 2, independence way, P. O. Box-2033, Princeton, New-Jerse, 08540.	Apparatus and method for forming a shadow mask from a flat blank.
171659	17-05-89	Do.	Improved method for the manufacture of cathode ray tubes.
172529	11-09-89	Do.	Colour display system.
174818	05-05-89	R&C Products Pty. Ltd.	A passive dispenser for use with a cistern for dosing a toilet bowl.
168870	20-05-89	R. J. Reynolds Tobacco, Comp. of 403, N. Main, ST. City of Winston-Salem, N. Carolina-27102, U.S.A.	Cigarette type smoking article.
171554	30-03-89	Roads & Traffic Authority of 50, Rothschild Ave, Roseberry, NS, Wales 2018, Australia.	Mobile Vehicle inspection device.
163573	07-01-85	Roberto Perlini, 37047 San Bonifacio, Locara, Italy.	Oleodynamix control device for steering the pivotable wheels of vehicles provided with straight travelling stabilizer.
161345	15-12-83	ROCAMAT, rue Bellini, 92800 Puteaux, France.	Device for cutting blocks of materials like granite, marble stone.
167726	28-10-87	Rolf peddinghans of Deterberstrasse, 25, 5828, Ennepetal, West Germany.	A vice.
164678	02-12-86	Rotomould (Indi.) Vijay. Industries Estate, Padra Road, Samiala, 301410, Gujrat, India.	Method of moulding containers made of plastic materials having multicoloured layers.
167667	13-10-86	Royal Ordnance Plc. of 5th Griffin House, The Stand, London, WC2N, SBB, England.	An explosive device for linear cutting or demolition purposes.
159975	26-04-84	Santrade Ltd. of Alpengni 12, 6002, Luzern, Switzerland.	Device for extruding flowable substances.
160643	09-08-84	Do.	Apparatus for the production of granulates.
162177	27-05-85	Santrade Ltd. of Alpengni-12, 6002, Luzern, Switzerland.	Apparatus for the production of granules.
170922	12-07-88	Satake Engineering Co. Ltd. of 7-2, Sotokanda, Tokyo, Chiyoda-Ku, 4-Chome, Japan.	Varvahve speed controllable induction motor.
174418	10-08-92	Do.	Method of and system for flour milling.
174999	20-09-90	Do.	Induction Motor.
175000	20-09-90	Do.	Induction Motor.

1	2	3	4
166020	09-09-85	Schlumberger Industry, ICS.	A globe valve having a dismountable seat for rapid maintenance.
172753	11-06-87	Separation, Technologies Inc.	Apparatus separating different species of the material constituents of a mixture of particles.
163435	19-06-84	Shiroki Corporation, 2 Kirihara-Cho, Fujisawashi Kanagawaken 252, Japan.	Spontaneous convention type solar heat collector.
176324	21-05-91	Sibelon S.R.L. of Via Don, Bosco, 9-28100, Novara, Italy.	A dam assembly for non-pressurised draining of water Vapor condensate from concrete, sturoture of dam body or similar hydraulic work .
175966	21-11-90	Siepa Holding of Burgstrasse-17, CH, 8750, Clarus, Switzerland.	An engraved steel die printing ink suitable for printing of backs and faces of security documents.
176239	23-09-91	Societe Financiere De Ges of 13g Rue Du, Luxembourg, 59100, Roubaix, France.	Bulk solids feed valve.
175995	30-01-91	Somnath Roy of 229, B.N. Road, Calcutta-700 060, State of West Bengal, India.	Improvements in or relating an apparatus for withering of tea leaves.
168316	06-02-87	SKW France S.A. of 16, Avenuc de la Grande Armee, 75017, Paris, France.	Composite article having a tubular sheath containing a compacted material for the treatment of liquid metals and process for the production or said articles.
162514	26-06-84	SPX Corporation, 100 Terrace Plaza, Muskegon, Michigan 49443, U.S.A.	Solenoid Valve.
162593	26-06-84	Do.	Solenoid Valve.
162905	17-06-85	Do.	Solenoid Valve.
166738	02-05-86	S. S. Engineering Works, of C-2/8, Mayapuri, Phase-II, New Delhi, India.	A labelling machine for affixing onto bottles or Containers.
169645	21-04-87	Societe Carboneene De Propulsion.	Valve Comprising a mobile obturating member and an annular seat combined therewith.
175283	01-10-90	Sataktler & Uhl, Nördliche Ringstrasse 12, D-8540, Schwabach, Fed. Rep. of Germany.	Combing element for spinning machines in particular a needle or stamped sawtooth element.
170202	18-05-87	Standipack Pvt. Ltd. of 25, Community, Centre, East of Kailash, New Delhi-110065, India.	A pouch.
175724	04-01-91	Do.	A dispensing means for use with a bag and box packaging.

1	2	3	4
169019	01-12-87	Steelworth Pvt. Ltd. of Circular Court.	A multi-roller CTC machine.
169769	09-12-86	Stein Industries.	A horizontal cylindrical rotary, Pulverizer for preparing pulverized material of two different degrees of fineness.
162294	14-11-84	Do.	A device for suspending a bundle of horizontal tribes in a vertical plane.
161829	14-11-84	Do.	Heat exchanger having vertical tubes forming parallel toops and interlocking means for interlocking adjacent vertical tubes.
174870	21-04-89	Do.	A machine for remotely lining the inside of a heat exchanger tube ends with a sleeve.
167028	03-04-83	Stork Brabount BV, of 43a, Wim de Korverstraat, 5831, AN Boxmeer, the Netherland.	Apparatus for evenly filling an alongate collecting space with a viscous substance.
164754	13-03-86	Swaram Singh & Sushil Kaur of C-2/8, Mayapuri Phase II, New Delhi-110064.	A machine for affixing labels on bottles.
165934	13-03-86	Do.	An attachment for use with a labelling machine.
173590	08-01-92	Taito Co. Ltd., of 4-13-5, Nihonbashi odenmacho-cho-ku, Tokyo, Japan.	A method for preparing a plallet like feed for enhancing host defence activities in crustacea.
159495	23-12-83	Tambrands Ltd. of Dunsbury, Havant, Hampshire, pog, SDG, UK.	Tampon applicator.
175632	26-03-90	Tamfelt Inc. of 28 Draper Lane, Comton, MA-02024, USA.	A work fabric including an endless fabric body and method of making the same.
176046	13-06-91	Tampella, Power 81.	Combustion unit.
173304	03-10-89	Tatsy ONO of 5-20-13 Matsugaoka Funabashi-Chiba, Japan.	A method of connecting together columnar and connecting members to form a support system and a support system, so formed.
159137	26-09-83	Tecumseh Products Co., 100 East Patterson Street, Tecumseh, Michigan-49286, U.S.A.	A cooling device for a hermetic motor-compression unit.
159152	25-05-84	Theo schroders of Gerhard-Welter-Strasse, 7, 5140 Erkelenz, F.R. of Germany.	A fire-protective closure or seal for an opening in a building.

1	2	3	4
169900	28-03-88	Theo Schrodors of Gethard-Welter-Str.7, 5140, Krkelenz, West Germany.	A fire barrier door.
174094	19-03-90	Do.	Fire proof door.
172872	13-07-89	Thomson Consumer Electronics Inc. of 600, North Sherman Drive, Indianapolis, Indiana-46-201, USA.	Electron gum essembly having a reinforced heater lab with locating means.
173637	01-01-90	Do.	Method of electrophotographically manufacturing a luminescent screen assembly forcert.
174959	30-04-90	Do.	Method of manufacturing a luminescent screen assembly.
162890	20-11-85	TLV Company Ltd. of 8th floor, of Hibiyaokokusai, Building 2-3, Uchisaiwai-cho-2-chome Chiyoda-Ku, Tokyo, Japan.	pressure reducing valve.
165693	02-03-87	Do.	Steam strap operation monitoring device.
157173	03-09-82	United Technologies Corporation, 1, Financial plaza, Hartford, Connecticut, USA.	Method of manufacturing a metal work-piece and finishing metal surfaces by surface treatment of workpieces.
172388	19-12-89	United Technologies Corporation of Hartford, Connecticut-06101, USA.	Method of inertia welding of hollow high strength superalloy article.
172856	01-01-90	Do.	Gas turbine jet engine.
173244	18-08-89	Do.	Axial compressor blade assembly.
173421	20-09-89	Do.	Control system for gas turbine engine for powering aircraft.
175944	27-11-90	Do.	A method of manufacturing a substrate having a bond coat adhered thereto undamaged after removal of the top coat coated on the bond coat.
174027	22-01-90	The University of melborne of Grattan, Sstreet, park Ville, & Victoria, 3052, Australia.	Exensometer for measuring dimensional change and method of making same.
176294	23-05-91	Vergola International rty., of 13, Water-vale Drive, Greenfields, South Australia, Australia.	Extruded seal for lonvres.
160369	13-03-85	Voest Alpine AG, MA-Schinenfabrik Liezen.	Internal lining for ball mills.
162122	30-03-84	Do.	Apparatus for spraying the bits and or the facing with pressurised liquid as well as apparatus for performing this process.
162866	30-03-84	Do.	Cutting assembly for a rock cutting machines.

1	2	3	4
165864	03-03-86	Vossloh-Werke, F.R. of Germany.	Fastening arrangement for fastening a rail to a sleeper.
167700	02-02-88	Do.	Device for fastening rails to sleepers.
167944	02-02-88	Do.	Rail testing means utilizing a resilient clamp.
174835	25-05-90	Do.	Rail fastener on concreteties by means of resident tension clamps.
173634	23-10-89	Walter Eirich & Spessertweg-18, D-6969, Hardheim, (2) paul Eirich, Bahnhofstrasse 11, D-6969, Hatdheim, (3) Hubert Eirich, Erate Sandurg-16, D-6969, Hardheim, F. R. of Germany.	Agitator ball mill.
171912	28-02-89	The Wessa, Siedlung la, 6751, Mackenbach/pfaiz, Bundesrepublik, Deutschland, Federal Republic of Germany.	Apparatus for the production of small clear ice bodies.
175214	09-08-90	W. L. Systems, Inc., of P. O. Box-23120, San Antonio, Texas-78223, USA.	An apparatus for producing a CT scan.
175922	16-02-90	W. T. Johnson & Sons (Hunddersfield) Ltd. of Bankfiled mills, Moldgreen, Hunddersfield, West Yorkshire HO5, 9 BB. U. K.	Method and apparatus for pakaging articles.
174412	12-03-90	Woodfree Ltd. of 75, Springfield Road, Chelmsford, Essex-CM2, 6JB, U. K.	A method of de-inking waste paper material.
166558	19-04-88	Zedlani pty. Ltd. of 1, Smith Street, parramatta, New South, Wales-2150, Australia.	An intravaginal device for controlling urinary in continence.

COMMERCIAL WORKING OF PATENTED INVENTIONS
CHEMICAL ENG. INDUSTRY LIST NO. II

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by Patentee in the statements filed by them under section 146(2) of the patents Act, 1970, in respect of Calendar Year 1996, generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1		3	4
169408	28-04-1987	A Ahlstrom OY of SF-29600, Noormarkka, Finland.	Fluidized bed reactor.
171902	12-07-1988	A. Ahlstrom Corporation, Finland.	A circulating fluidized bed reactor.
174564	17-10-1986	Do	Leake proof electrical apparatus such as a circuit breaker emp; oying adiclectric gas under pressure.

1	2	3	4
175811	08-01-1990	A. Ahlstrom Corporation, Finland	A steam generator plant & method of manufacturing the same.
175817	28-03-1990	Do.	Fluidized bed reactor with protected fluid distributor.
167182	14-03-1986	AE PLC, of Cusston house cawston Rugby warwickshire.CV 22SA, England.	A composition for a plain bearing material.
167454	22-05-1986	Do.	A process for the production of an aluminium-based bearing alloy.
170257	01-10-1988	Augustin Arana Brana of Zerostea 4, poligono Inds. ALE-Gobal, 01010, Victoria Spain.	Improvements introduced in the formation of foundry core blocks.
172938	12-06-1991	Aplicaciones Farmaceuticas S.A. Mexico.	Process for manufacture of pharmacokinetically and pharmacologically controlled formulations.
172999	22-06-1991	Do.	Process for manufacture of formulations intended for parenteral administration by injection.
174363	03-05-1990	Bernd Mansen West German.	Ampule.
169600	03-06-1988	Bothlehem steel Corporation of 701, East third, st. Bothlehem Pennsylvania-18016, U. S.	Method for the production of concrete like solid material by chemical stabilization of heavy metal bearing dust sludge such E.A.F. dust.
169919	13-02-1989	Birla Research Institute for applied Sciences of Bilagam-456331, Nagda (M.P.) India.	Anio-proved process for the manufacture of cellulosic fibres.
168382	01-04-1987	Botten, Inc., of 180, East Broad St., Columbus, 43215, U.S.A.	Raw batch carbonaceous composition for use in making shaped self sustaining article.
168679	01-04-1987	Do.	A process for making a body that can be pholyred to form a carbonizedshope.
172822	21-12-1988	Do.	A method for producing a shaped article of resin bonded sand.
172932	19-12-1988	Do.	A method for producing free flowing granular foundry sand.
173223	12-04-1989	Do.	A feed stock composition for the production & use of a continuous self backing carbon electrode.
165889	21-04-1987	Bre Val S. A., Zoruede Saintdeirre, 1700, Fribourg, Switzerland.	Controlled flow liquified gas igniter.
164928	27-03-1985	British Steel Plc. 33 Grosvenor Place London S.W.1, England.	A method of refining metal.
171503	26-05-1988	British American Tobacco Co. Ltd. of p. o. Box 482, West Minster House, 7, Millbank, London.	A method of making a tobacco smoke filter element.
172863	18-07-1939	B. V. Optische Indus.	Dosimeter for ionizing radiation.
164903	14-02-1986	China Metallurgical Import & Export. Corpora- tion, 46 Dongxi D jie, Beijing Republic of China.	An initiating element for use in a non-primary explosive hollow tube detonator.
170034	14-01-1988	C.I.E., De Raffinage E.T. De Distribut Total France.	Apparatus for injection of a charge of hydro- carbonina reactor for catalytic cracking.

1	2	3	4
172927	13-05-1989	Caltor Ltd of Kyllinkinportti 2, P. O. Box 105, S.F. 00241, Helsinki FINLAND.	Process for preparing an agglomerated cellulose composite.
169054	26-07-1988	Cyril Harold Evans of 23-Burdock Lane Don Mills, Ontario M3C-2g, Canada.	Contact lens, soft pliable optical plastic material.
161504	16-10-1984	D C M. Ltd. of Kanchanjunga Bldg. Barakhamba Road New Delhi	An improved process for the manufacture of sodium silicate.
161564	16-10-1984	Do.	A process for the preparation of silicon tetrachloride from commercial grade silicon.
161565	16-10-1984	Do.	An improved process for preparation of fumed silica.
169110	25-03-1933	Degussa A. G. Weisstraßenstrasse 1, 6000 Frankfurt (Main) F.R.G.	Process and apparatus for producing carbain black.
161552	26-10-1983	Degussa Aktiengesellschaft, of 6000, Frankfurt 1, Weisstraßenstrasse, Federal, Germany.	A continuous co-current process for carrying out catalytic hydrogenation with hydrogen or a hydrogen containing gas for the production of hydrogen peroxide by the so-called anteraquinone process.
161676	31-12-1983	Do.	A process for the production of regenerants for carburizing salt baths.
162212	21-04-1984	Do.	Process for the production of natural oxidic or silicatic fillers modified at the surface.
164686	16-07-1985	Do.	A process for the production of fillers.
168086	13-03-1987	Do.	A process for a dry cationization of galactomannan.
169015	25-08-1987	Do.	A process for the extraction of industrial hydrogen peroxide from working solution obtained in a conventional anthraquinone process for exclusive use in industrial purpose.
169577	16-05-1988	Do.	Aqueous pumpable stable suspension of water insoluble silicate capable of binding calcium ions.
169654	07-07-1988	Do.	Process for dry cationization of galactomannans.
173390	22-06-1992	Do.	A method for reductive amination of a primary amine with a ketone.
174699	02-07-1993	Do.	A process for the production of a suspension cyanuric chloride in aqueous liquids more particularly in water.
175657	22-01-1991	Do.	A process for the surface modification of fillers using organosilicon compounds.
175684	16-11-1990	Do.	A process of preparing a catalyst for the purification of the exhaust gases of diesel engines.
175826	03-04-1991	Degussa A G Germany.	A process for production of catalyst for the oxidation of sulfur dioxide.
175856	07-01-1991	Do.	A process for the preparation of a catalyst for the purification of the exhaust gases of internal combustion engines.

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175689	06-04-1993	Eli Lilly & Company at Lilly Corporate Centre City of Indianapolis State of U.S.A.	Process for preparing 7-substituted-amino-3-hydroxy-3-cepham-4-protected carboxy sulfoxide esters.
172369	05-04-1988	Fosroc International Ltd.	A dry cementitious composition.
174565	28-10-1988	Do.	A method of making a durable rapidly set hardened cementitious material for use at a site.
176280	18-09-1989	Do.	A cement powder composition.
162596	07-12-1984	Fried Krupp. Gesellschaft mit Beschränkter Haftung a company.	Process for the production of ferrochromium.
165425	04-11-1986	Giulini Chemie GmbH Giulini Str. 2, 6700 Ludwigshafen; West Germany.	A process for producing a three dimensional stiffening element.
174419	12-11-1990	The Green cross Copn of 3-3, Imabashi-1-chome Osaka-ku, Osaka, Japan.	Process including germ destroying process germicidal products and their preparation method fumigant & fumigation method as well as germicidal gas composition their preparation, method & apparatus therefor.
164054	23-12-1985	Gujarat State Fertilizers Co. Ltd. P.O. Fertilizer- nagar Dist. Vaidodara, Gujarat.	A process for the manufacture of copolymers of styrene and acrylonitrile.
164871	23-12-1985	Do.	Process for the recovery of sodium sulphate & mono carboxylic acids & di-carboxylic acids from caprolactam waste liquor.
164872	31-12-1985	Do.	Process for the recovery of sodium sulphate & mono carboxylic acids from caprolactam waste streams.
166304	14-04-1987	Do.	Improvements in or relating to a method of preparing methal esters of dicarboxylic acids.
165533	05-01-1987	Hans Spalten Frankstr. 21, D-4054 Nettetal, Fed. Rep. of Germany.	Structural Bar.
168153	09-11-1987	Hemont Incorporated.	A process for the preparing catalyst components suitable for (co) polymerization of alkenes.
173859	24-05-1991	Hoechst Celanese Corporation of Route 202-206 North, Somerville, New Jersey, U.S.A.	Improved method for prod producing ibuprofen.
165523	03-02-1987	H.P.W. Eirich.	A method of an apparatus for producing treated power station residues in pellets from bulk siltor ask for conversion in to easily disposable form.
161290	20-03-1984	I.C.I. Flo.	A two stage process & apparatus for producing hydrogen enriched gas.
161489	08-04-1985	Do.	Process & apparatus for producing ammonia
163105	22-02-1985	Do.	A process for producing ammonia synthesis gas.
155162	12-06-1986	Do.	Conting composition.
155251	24-02-1986	Do.	A process for producing a purified ammonia synthesis gas.
166862	07-08-1986	Do.	A Process for the production of ammonia synthesis gas.
157736	19-08-1986	Do.	Process for the production of a hydrogas containing gas stream.
172330	19-08-1986	Do.	A process for the preparation of catalyst for use in catalytic shift reactions.

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172368	05-04-88	ICI Ple	A process for the production of a hot pressurised gas stream catalytic partial combustion
173934	15-08-1986	Do.	An emulsion explosive composition.
174179	29-09-1988	Do	Process for the production of ammonia
175181	23-03-1989	Do.	A process for the preparation of hydrogen containing gas stream.
175847	03-07-1989	Do.	An improved process for the production of hydrogen containing gas stream.
154810	29-06-1982	Imperial Olevite Inc.	Electroplating apparatuses.
159188	05-04-1983	Imperial chemical Industries ple.	Process for the production of ammonia.
160074	07-10-1983	IMI titanium Limited a British Company of P.O. 216, Wilton England.	Method of manufacturing a weldable alloy of titanium.
169889	22-02-1985	Imperial Chemical Industries ple.	A process for the production of ammonia synthesis gas.
170072	24-02-1986	Do.	Apparatus for conducting endothermic catalytic reactions such as steam reforming hydrocarbons having boiling point under 220, degree centigrade to produce carbon oxides hydrogen & the like.
170167	24-02-1986	Do.	Apparatus for conducting an endothermic catalytic reforming reaction.
172081	07-05-1983	Do.	A gasket of an electrically insulations material suitable for a use in an electrolytic cell.
173499	19-05-1987	Do.	A method of producing of a gas stream containing hydrogen & carbon oxide.
170403	07-09-1987	Ince Alloys International Inc U.S.A.	A process for producing a nickel—chromium-molybdenum base alloy.
169911	09-09-1988	Indian Oil Corpn India.	A process for the production of fatty acids synthetically from the effluent contained in petroleum refinery streams.
171122	08-08-1989	Do.	An improved process for the production of ashless alkyl phenols.
172909	09-07-1991	Do	A process for the quantitative recovery of naphthenic acids from petroleum refinery streams
173171	03-12-1990	Do.	An improved process for the preparation of Di-tertiary butyl peroxide.
173597	08-08-1989	Do.	An improved process for preparing di- or bisalkyl anthates.
173598	08-03-1989	Do.	An improved hydrocarbon lubricating composition.
173951	09-07-1991	Do.	Process for the preparation of 4, 4 methylene-BIS (2, 6-di-) tert-butylphenol.
174421	04-09-1992	Do.	Preparation of crystalline mordenite zeolite.
174516	30-12-1991	Do.	An improved process for the preparation of a catalyst composite material useful for hydrocarbon conversion.
175391	31-12-1991	Do.	An improved process for the transformation of heavy hydrocarbons.

1	2	3	4
T73872	06-05-1992	Indubhai Hemchand Parekh Nagda (M.P.) India.	Manufacturing regenerated cellulose fibre by zinc free viscose process.
164735	01-12-1986	Industrikontakt Ing. O. Ell Kieiva 20 Floro, Norway	A process for recovery of oil
166596	14-03-86	International Metals.	A process for reducing agglomerates.
171159	26-12-90	Ishihara Sangho Kaisha Ltd. Osaka Japan.	Process for producing an imidazolidine derivative.
174431	09-05-89	Institute De Recherches, France.	A process and installation for the manufacture of a metal product.
171095	30-01-89	J G C Corporation of 2-1, Ohtemachi, Tokyo, Japan.	Method of regenerating catalyst for catalytic dehydration reaction of ethanal to produce ethylene.
173976	30-01-89	Do.	Method of producing ethylene by catalytic dehydration of ethanol containing an aldehyde
167764	12-05-87	J P I Transperation Products Inc, of Michigan U.S.A.	A method of producing a powdered metal aluminium base bearing material.
175844	04-10-88	Karl Merz of Mohenweg 14, 5734, Switzerland.	A fragmentation casing for an explosive device.
168751	15-12-86	Kasei Optonix Ltd. of Tokyo 105, Japan.	Improvements in or relating to a luminescent phosphor composition process for its preparation & fluorescent lamp employing it.
173585	08-12-89	Do.	Method of obtaining an improved phosphor for cathode ray tubes.
170719	07-11-88	Kerr-Mcgee Chemical Corpn. of Okla-home-73125, U.S.A.	Process for producing a coated titanium dioxide pigment.
171911	07-11-88	Do.	Improved process for preparing a rutile titanium dioxide pigment.
172378	24-05-89	Do.	Improved continuous process for recovering carbon di-oxide from a carbon-di-oxide rich gas stream.
172792	16-08-89	Do.	Process of preparing free flowing powders of non-pigmentary titanium dioxide granular aggregater.
174443	16-10-89	Do.	Process for producing ultraviolet light absorbing chemically inert pigmentary composition of matter.
174685	22-05-90	Do.	Method for producing particulate titanium oxides.
170435	10-02-87	Kinetics Technology International Corpn.	Continuous process for producing dry synthesis gas.
175041	15-05-90	Klüber Lubrication Munchen K G of West Germany.	Lubricating grease composition.
168550	30-03-88	Kortec A.G. a Swiss Company.	Charging material preheater for preheating charging material for a metallurgical smelting unit.
170717	06-10-88	Do.	A method of refining Iron or steel by melting solid metal material such as steel scrap.
172795	03-10-89	Do.	Charging arrangement for shaft furnaces in particular blast furnaces.

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175877	08-06-92	Kumiai Chemical Industry of Tokyo Japan.	A method for preparing pyridine derivative having herbicidal activities.
175199	07-04-93	Laboratorios Dalmer SA-of Habana, Cuba.	Method for manufacturing mixtures of higher aliphatic alcohols.
163053	18-12-84	L'air Liquide Orsay 75007, Paris France.	Method & installation for recovering a mixture prepare butane & pentane from a gas containing lighter components including ethane.
167585	14-07-86	Do.	Process for cryogenic air separation in to its component gases and an air distillation system for carrying out the process.
170626	02-06-87	Do.	Process for separating a gaseous mixture by absorption.
171652	02-01-89	Lanxide Technology Corpn. Newyark, Delaware, U.S.A.	Method of producing metal matrix composites.
165211	04-02-86	Do.	A method for producing a self-supporting ceramic composite structures.
166622	22-01-87	Lanxide Technology Corpn Delaware, US.A.	A method for producing a self supporting ceramic composite body having their inat least one cavity.
165221	04-02-86	Do.	A method for producing a self supporting ceramic composite structure.
168482	07-09-87	Do.	Production of ceramic articles incorporating porous filler material.
168483	07-09-87	Do.	Method for producing a self supporting ceramic composite.
168484	07-09-87	Do.	A method of producing a self supporting ceramic composite.
168487	15-09-87	Do.	Production of ceramic & metal composite articles incorporating filler materials.
168503	13-01-88	Do.	A method for producing a self-supporting ceramic composite structure.
168735	04-09-87	Do.	A method for producing self-supporting ceramic body.
168941	04-09-87	Do.	A method of producing self-supporting ceramic body.
169021	01-01-88	Do.	Method of producing mold-shaped ceramic bodies.
169041	04-01-88	Do.	A method for producing a self-supporting ceramic composite comprising metal carbide.
169042	04-01-88	Do.	A method for producing self-supporting ceramic composite.
169576	11-05-88	Do.	A method of producing a metal matrix composite.
169580	19-05-88	Do.	Method for surface bonding of ceramic bodies.
169659	14-07-88	Do.	Method of producing self-supporting bodies.

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170722	02-01-89	Do.	Method for producing a metal matrix composite.
172794	29-09-89	Do.	Method of bonding a plurality of bodies consisting of metals ceramics, ceramic composite & the like.
172868	29-09-89	Do.	A method of forming metal matrix composite bodies by use of an immersion casting technique.
173036	29-09-89	Do.	A method for making metal matrix composite bodies.
173451	29-09-89	Do.	Method for forming macro composite bodies.
174525	16-07-90	Do.	A method of forming metal matrix composite bodies by a self generated vacuum process.
156659	24-05-83	TheLubrizol Corporation.	A composition for use in oil based lubricants containing carboxylic acid derivatives of alkanol tertiary monoamines.
161606	16-02-84	Do.	An additive composition having alkyl phenol and amino phenol for use in lubricating compositions.
162587	29-01-85	Do.	Process for preparing a water dispersible reaction product for use in lubricants cutting medial.
163431	28-02-83	Do.	Additive composition containing aminophenol combinations useful as lubricate & fuel additives.
164211	28-01-85	Do.	Improved process for making substituted carboxylic acid & derivative thereof.
167479	28-01-85	Do.	Improved process for making substituted carboxylic acids.
167643	28-02-83	Do.	A nitrogen containing organic additive in the form of composition or concentrate.
172297	28-01-85	Do.	Method for preparing a substituted carboxylic acid derivative composition.
173209	28-05-90	Do.	Fuel or lubricating compositions.
173299	14-01-92	Do.	A method of preparing 5, 6-cis 1a, 24 dihydroxy vitamin D ₂ .
173348	23-09-91	Lunur Corporation, of 313 West Beltline Highway madison, wisconsin-53713, U.S.A.	Method of producing 1-Alpha phdroxyvitamin D ₄ .
166503	21-11-85	Man Gutehoffnungshhte Aktiengesellschaft Federal Republic of Germany	A process for the production of synthesis gas by gassification of coal.
167441	24-04-86	Do.	An apparatus for utilization of heat of fluo gas prepared from coal.
173926	17-07-89	Do.	An improved process for producing combustible coal gas by gasifying coal.
165587	23-02-86	Mannesmann A.G.F.R. Germany	Counter current fluid cooled discharge screw for use in a rotary hearth furnace.
167906	13-08-86	Do.	An improved process for the preparation of an alloyed steels.
175813	06-02-90	Do.	A process and an apparatus for vacuum processing of metals.

1	2	3	4
170148	18-08-87	Mulamine Chemicals INC a corporation organised U.S.A.	Method of producing an attrition-resistant, controlled release fertilizer composition.
170677	18-08-87	Do.	Method of producing a base component for using in the production of fertilizer particle composition.
163966	07-05-86	Metallgesellschaft, Aktiengesellschaft West Germany.	A process of producing disposable pollution free ash from cattle dung.
165700	05-06-87	Do.	Fluidized bed system.
167377	14-08-87	Do.	Process for recovery of valuable gases from a laden absorbent solution.
168511	12-02-88	Do.	A process of producing elementary from hydrogen sulfide-containing feed gas.
169472	14-08-87	Do.	Process of treating two laden absorbent solution streams.
171560	18-09-89	Do.	A process for treating industrial gas.
172720	09-09-91	Do.	Process for producing refined vegetable and animal oil.
174360	13-12-90	Do.	Fluidized bed reactor.
174912	05-02-90	Do.	A process for gas purification to produce purified gas the system of regenerating a high boiling scrubbing solution.
175276	25-10-90	Do.	Process for the fine purification of an aqueous alkali chloride solution for use in membrane electrolysis.
164987	14-08-87	Do.	Process for regenerating absorbent solution streams laden with carbon dioxide and carbon oxysulfide.
167696	14-08-87	Do.	Process of disulfurizing a first and a second gas each gas containing CO ₂ and sulphur compounds.
173611	26-11-91	Micronisers Pty. Ltd.	A process for preparing a zinc containing polymer complex such as zinc glycerolate polymer of zinc propane trichloride.
160813	02-06-83	Midrex International B. V. Wilfriedstrasse 12 Switzerland.	Method of generating a reducing gas.
164016	16-08-85	Do.	Process for reducing metallic oxides to metallised material.
164404	12-08-86	Do.	Method & apparatus for producing molten iron using coal.
167756	13-11-86	M.I.N. of Agriculture Fisheries & Food Ferry Rd. London.	An electrochemical process for the cleavage of.
163763	02-11-87	Mitsubishi Mining & Cement Co. Ltd., Marunouchi 1-chome, Tokyo Japan.	Finely pulverized solid fuel burner.
174566	21-05-90	Mitsubishi Chemical Corporation of Tokyo, Japan.	Process and apparatus for producing carbon black.
168387	30-11-87	Mitsui Petrochemical Industries.	Improvements in or relating to a process for the production of aromatic carboxylic acid.
168544	30-11-87	Do.	Process for the production of high purity terephthalic acid.
170253	24-05-88	Mitsui Toatsu Chemicals Inc. of 2-5, Kasumi-gasakji Tokyo, Japan.	A process for obtaining methacrolein & methacrylic acid from a reaction product gas obtained by known catalytic oxidation of isobutylene, tertiary butanol methacrolein or isobutyl aldehyde.

1	2	3	4
169549	17-12-87	Morton Thiokol Inc. of station Tower conveyry, England.	A method of manufacturing a ploumeric-sheeting.
171747	14-12-90	National Research Council of Canada.	Method of making conjugate of polysaccherides for use in preparing a vaccine.
166616	07-10-86	Nederlands Stikst of H.J. Sluiskil, The Netherlands.	A method of producing fertilizer granules containing urea and ammonium sulphate.
171399	16-07-90	Nederlandse Organisatie, Voor Toegestapte natuurwetenschappelijk, The Hague, The Netherlands.	Method for preparing a polymer composition for the controlled release of a signal substance.
173457	04-11-91	Nasbitt, D. Brow of 51, Celestialway, Columbia, Maryland, U.S.A.	A method for producing a storage stable aqueous solution comprising a hydrolytically unstable organic ionic compound.
166878	20-04-88	N.G.K. Insulators Ltd. of 2-56, Suda-cho, mizuho-ku, Nagoya city Japan	A suspension, insulator.
167946	29-02-88	Do.	A process for producing high strength proceling for use in insulators.
176282	22-02-91	Nitto Chemical Industry Co. of 5-1, Maryunochi-1 chome, Japan.	A method of producing of amides.
174751	30-04-92	Noric Technologies Inc. of 4222-97 street, Canada.	Process for obtaining fractionation product of a spice oleoresin.
175913	29-10-90	Nutri-sul International Inc. 1101, Lemplighter River Heights Logan Utah-84321, U.S.A.	An apparatus for burning sulfur with oxygen containing air.
171475	14-02-89	Otto India, Ltd., of F/16, Sector-2, Rourkela-769006, Orisa.	Process for the treatment of waste water resulting from coalpyrolysis for recycling it & recovery of the salts present therein.
173787	09-01-90	Do.	Process for the removal of hydrogen sulfide from coke oven gas.
157144	01-07-83	Outokumpu Oy toolonkatu 4, of 00100 Helsinki, Finland.	Procedure for roasting seleniferous material.
166784	11-03-88	Do.	A method for manufacturing tubes bars & strips of a non-ferrous metal.
173395	06-06-91	Do.	A method for manufacturing a good dispersion of two different solution in a liquid extraction in a controlled fashion & for making a good reparation & for making a good reparation thereof & an apparatus for carrying out the said method.
173896	23-04-92	Perio Products Ltd., of 7-Hamurpen street, 5th floor, Harhotzvim-91999, Jerusalem, Israel.	Process for the preparation of polymer composition suitable for tooth bleaching and other dental uses.
171692	25-10-1988	Peter Weinwirm, of 3590, Kaneff crescent Apt, 606 mississauga Canada.	A method of treating hazardous or toxic waste containing of organic matter & metals production of an inorganic soluble industrial raw material.
163533	19-09-84	Phillips Petroleum company a corporation organized U.S.A.	Process and reactor for producing carbon block from a carbonaceous feed stock.
162664	08-02-84	Povilliant Roger Victor Avenue De La Reforms 32 Brussels 1080 Belgium.	Process & installation for production of concentrated solution for ammonium nitrate.
174879	29-11-1990	Punya Brata chaudhuri of plankgatan-265602-19 Norrköling Sweden	A novel method for recovery of caustic soda from black liquors of soda pulping process.
175337	29-11-1990	Do.	Process of preparing chemical pulp from pre-treated agricultural waste.
168752	07-05-1987	PWT Partners L.P. of 285, piverside Avenue, west Port Co., U.S.A.	Fluid purification system and method of producing purified fluids.
164904	24-03-1986	Raffineria Olii Lubrificante rol spa of 50 via De Notaris Italy.	A process for the preparation of citric acid esters.

1	2	3	4
168259	19-01-1987	R.C.A. Licensing Corporation of two Independence way princeton New Jersey 0-8540 U.S.A.	Colour cathode ray tube.
172348	17-07-1989	Do.	Method for preparing improved lithium silicate glare-reducing coating for a cathode-ray tube.
173473	08-11-1989	Do.	Method of electrophotographically manufacturing aluminous screen assembly for a cathode ray tube.
170280	07-09-1987	Reckitt & Colman Products Ltd.	A method of producing a shaped article for dispensing vapour of a volatile liquid.
160117	18-03-1987	R.L.C. Technologies, U.S.A.	Method of producing an attrition-resistant controlled release fertilizer particle composition.
169266	03-10-1986	Royal Ordnance Plc. of Griffin House, 5 the strand, London.	Explosive shell.
169504	03-10-86	Do.	Explosive projectile.
166662	09-07-1986	S.A.B. NIFE A'B	Valve for addition of water to electrochemical accumulator batteries.
16065	26-03-194	SAFT a French body Corporation.	A method manufacturing an electrode for an electrochemical cell and an electrode manufactured by the method
168103	29-07-1986	Do.	A method of manufacturing a polymer consolidated cadmium electrode for an alkaline storage cell.
163027	13-05-86	Mannesmann Aktiengesellschaft Company Organised. West Germany.	Process for the reduction of iron-containing chromic ores.
171835	23-08-188	Sandoz Ltd. a Swiss Company.	An improved method of producing concrete.
173171	12-01-1989	Do.	A method preparing stabilised concrete residues
158380	05-11-1983	Shell Internationale.	Process for the preparation of a Fischer-Tropsch catalyst and use of this catalyst in the preparation of hydrocarbons.
164998	28-04-1986	SKW Trostberg AG of Dr. Albert Frank street 32, D-8223, Trostberg F.R. Germany.	Process for the removal of caffeine from tea.
175599	22-04-1993	Sonus Pharmaceuticals Inc. of 22026, 20th Avenue Washington, 98021 USA.	A method of manufacture of a bio-compatible storage stable colloidal dispersion having dispersed phase particles of a liquid of a boiling point less than 37°C.
172865	07-08-1989	Selmex AG, of Rehrstrasse, 6353, Waggis Switzerland.	Pencil lead substances & a process for its production.
172178	29-01-88	Stein Industrie	Heat exchange component for a heat exchanger.
173357	13-05-91	Seigewald Arzneimittelwerk GmbH Havelstrasse -5, D-6100, Darmstadt F.R. of Germany.	Process for the preparation of a pharmaceuticals composition suitable for the prophylaxis of vascular lesions.
162680	29-05-85	Stein Industries.	A heat exchanger panel.
163679	29-05-85	Do.	A centrifuging mixture separator.
164006	08-08-85	Do.	Ignition and combustion supporting burner for pulverized solid fossil fuel.

1	2	3	4
165805	10-12-85	Ste in Industrie	Duck for conveying smoke filled with fine dust particles and having heat exchanger and protective device for protecting the heat exchanger.
168911	18-01-88	Steven Alexander McAllister of 327-78, Bellvue crescent, Clearbrook Canada.	A concentrator for separating particulate material of higher specific gravity.
173895	05-09-91	(1) Stichting Central Diergeneskundig Instituut of Netherlands (2) Rijksuniversiteit Teleiden of Netherlands.	A method of preparing nucleic acid.
173552	16-11-88	Thapar Corporation Research & Development Centre Patiala-147001, Punjab.	A process for the preparation of immobilized cells.
160095	01-11-83	T & N Materials Research Ltd, of 20, St. Morya Parronog England.	Non asbestos flexible sheet material.
158912	13-04-83	Tioxide Group Plc, of 10, steeton Street, London.	A Fabric comprising a laminate.
173545	08-01-98	Troxler Electronic Laboratories Inc. North Carolina U.S.A.	A capacitance moisture sensor probe for sensing the moisture content of soil.
165862	17-01-86	T L V Co Ltd, of Hibiya Kokusai Bldg Tokyo, 100, Japan.	Gas-Water separator.
174150	26-05-92	UBE Industries, Ltd, of 12-32, Nishihonmachi-Ku, Japan.	A process for preparing 3-alkoxy alkanolic acid amide derivative
166702	08-12-86	Uhde GmbH, of Friedrichuhde-str, F.R. of Germany.	Device for the in a process for the manufacture of a product gas containing hydrogen & carbon oxide.
162193	10-01-84	Unilever Plc. A, British Company of Unilever House London.	Process for preparing nickel based hydrogenation catalytics.
163580	10-01-84	Do.	Process for hydrogenation unsaturated organic compound.
161729	05-07-85	Vereinigte Fuellkoerper Fabriken.	Packing unit for mass transfer columns.
173604	10-03-89	Vermont American Corporation U.S.A.	A method for producing a cemented carbide body having a tungsten carbide phase a binder phase & a third phase having cobalt tungsten boron & carbon.
174691	03-08-89	Wolfgang Priesemuth, of Nordoe, West Germany.	Apparatus for reclaiming plastic.
174688	10-10-90	ZIP Heaters Australia of Condell Park N.S.W. 2200, Australia.	Bolling water unit.

COMMERCIAL WORKING OF PATENTED INVENTIONS

ELECTRICAL. ENG INDUSTRY LIST. NO.

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970, in respect of Calendar Year 1996, generally on account of want of request for licences to work the Patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of Patentee	Title of the Invention
1	2	3	4
171474	09-02-89	A.E. Bishop & Associates Pty. Ltd. of 19, Buffalo, Road, Gladesville, New South Wales, Common Wealth of Australia.	Improvements in scanning induction hardening process.
170111	07-06-88	Actiengesellschaft West Germany Company.	An improved high frequency cable for the transmission of high frequency signals.

1	2	3	4
173193	13-09-89	Aeg Kabel Aktiengesellschaft.	L.W.L. Cable.
173284	13-09-89	Do.	An L.W.L. Cable.
163712	16-07-85	Alsthom	Compressed gas circuit breaker.
173532	15-02-89	Do.	A power Generation system.
174863	20-03-89	Do.	A high tension circuit breaker.
175354	28-09-88	Do.	An ore-rotating magnetic blast coil for the contact element of an electric switch.
172199	16-12-87	Bergwerksverband, GmbH, of Franz, Fischerwag-61, 300, Essen-13, West Germany.	A large capacity coking reactor.
171090	21-07-88	Bindicator Company, 1915, Dave Street Port Huron, Michigan-48060.	A system for indicating level of material in a vessel.
168677	01-04-89	Borden Inc. 180, East Broad Street, Columbus, Ohio, 43215, USA.	Electrodes.
163795	12-06-85	British Telecommunications P/c, 81 Newgate Street London EC1A 7AJ England.	Electronic tracking system for microwave antennas.
173222	21-03-89	Do.	A call traffic control sub-system for use in a communications switching system.
165006	15-07-86	Brown, Boveri & Cie AG, Kallstadter Strasse 1, D-6800, Munnheim Katertal, West Germany.	Centralized control receiver for power distribution networks.
168333	11-06-87	B.V. Optisch Industries.	A device for slit radiography.
169511	03-05-88	Do.	Device for slit radiography with image equalization.
175880	18-07-89	Do.	Desimeter for ionizing radiation.
171236	06-10-88	CEBA, SPA, Construzioni, Electromeccaniche-E, Disposit, of Via, Nazionale, 34, 33042, Buttrio (UD), Italy	Device to measure the level of liquid metal in a crystallizer casting ingot mould.
161476	05-09-83	CHUBU ELECTRIC POWER COMP. of 1 Higashishin-Cho Higashi-Ku, Nagoya-Shi, Aichi-Kano, Japan.	Insulator for lighting arrestor.
168579	17-07-87	Commodore-Amigo, Inc. of 983, University Avenue Losgatos, California 95030, U.S.A.	Audio Channel system for out-putting an analog signal corresponding to a sound wave form in a personal computer system.
169056	10-11-88	Danieli & Co. Officine, Meccaniche Spa, Via Nazionale, 33042 Buttrio, Italy.	Device to intensify the magnetic field in an ingot mould.
175548	16-11-90	Do.	Three phase direct arc electric furnace fed with controlled current.
160085	13-07-1983	Energy Conversion Devices.	Improved alkaline fuel cell.
160151	05-01-1984	Energy Conversion Devices 1675 West Maple Road, Troy Michigan 48084 U.S.A.	Electronic matrix arrays and method for making parallel preprogramming or field programming the same.
161224	22-02-1984	Do.	Thermoelectric device exhibiting decreased stress.
161384	13-07-1983	Do.	Fuel cell and an anode within.
162262	03-01-1984	Do.	Electronic matrix arrays and method for making the same.
163310	31-01-1984	Do.	Multilayered electronic memory arrays for use in data storage apparatus.

1	2	3	4
173973	30-07-1990	Felten & Guillaume Fabrik Electrischer Apparate, of A-3943, Scherems Eugen, Niederostereich Austria.	Automatic cut out.
170842	23-08-1988	General Electric Commy.	A system for receiving television type signal.
175277	03-01-1991	Do.	A low nitric oxides (Nox) emission gas turbine combustor.
176514	01-08-1991	General Electric Company	Apparatus for receiving a high definition television signal.
168230	28-12-1987	Goldstar Co. Ltd. Lucky Goldstar Twin Towers, 20 Yoido Dong, Yongdungop Gu Seoul 150, South Korea.	Flyback transformer.
168496	04-11-1987	Do.	A switching-type stabilizing power supply circuit.
164427	-86	GTE ATEA, of Industriepark Klein Gent, B-2410 Herentas, Belgium.	Interface circuitry for communicating by means of messages.
164539	20-06-1986	Heinz Krug Care Akademie Maru Station 24, NL-6063, NP Vlodrop, Netherland.	Circuit arrangement for testing integrated circuit components.
161609	8-02-1985	Hollandse Fingeloperaten B. V. Zuidelijke Havenweg 40, 7550-GD Hengelo the Netherlands.	Radar system.
162453	21-01-1985	Hughes Aircraft, Co. of 7200- Hughes, Terrace, P. O. Box 45056, Los Angeles California-90045, 70066, formerly of 200 North Sepulveda.	Non-Volatile semi-conductor memory unit.
159462	07-05-1983	Imperial Chemical Industries Plc of Imperial Chemical House, Milbank, London Sw1f, 3gf England.	Electrolytic cell containing gasket having projections and/or recesses.
164640	17-04-1985	Jeumont Schiender.	An oscillating circuit for a detector
167048	12-03-1986	Do.	Apparatus for monitoring the period of separation of impulses.
161289	06-12-198	Kapcompany General Ltd., C/o. Kapur Solar Farms, Bijwasan N j-fgrh, Rd., P. O. Kapas Hera New-Delhi-110037, India.	A device for transferring to a load.
174713	23-3-1990	Kerr McGee, Chemical Corporation of Kerr-meggee, Centre Oklahoma, City, Oklahoma-73125, U.S.A.	Method of producing electrically conductive pigmentary.
169083	09-09-1987	Klockner Cra Patent GMBH Klocknerstrasse 2g, 4100 Duisburg, 1, A-West Germany.	An improved process for producing metallic smelts in electric furnace.
175916	22-01-1991	Kone Aktiengesellschaft, of Beeskowdamm, 3-11, D-1000 Berlin-37, West Germany.	Connecting block for the telecommunication and data technology.
165031	15-05-1986	Kyrona Messtechnik Gysor of St. Galler strasse 23, CH-9202 Gossau, Switzerland.	Control apparatus for the electronic detection in alternating current transmission lines of fault locations causing power losses.
162742	11-04-1984	Krone AG of Beeskowdamm, 3-11 D-1000 Berlin-37 Germany.	Terminal elements for cable wires and drop wire cables.
166064	16-04-1987	Do.	Connector bank for cable wires in particular of telephone cables.
172379	05-09-1991	Laboratorien Hausmann AG of Rothenstrassa-37, CH-9001, St. Gallen Switzerland.	A process for preparing radioactive metal complex for use as X-ray diagnostics and anti-tumor agents.
169207	05-02-1987	Lacrex Brevetti, S. A. of via. Eco-cosa, luce, CH-6644, Orselina, TI, Switzerland.	Contact breaking ignition plug.
174141	13-04-1989	Liftsonic Ltd., of Oak Lodge, 275, Ongar Road, cheimford, Essex EMI, SST. U.K.	A vehicle security system.

1	2	3	4
164890	24-07-1985	Lewis Worms	An energy converter such as an electricity producing mechanism.
165570	10-04-1986	Macrovision corpn. 760 East E. L. Camino Real Suite 200, Mountain View California-4040, U.S.A.	Method & Apparatus for producing a recorded videotape having a processed vide signal so as to prohibit the making of acceptable video tape recordings thereof.
176234	11-10-1991	Macrovision Corporation of 700 East EL camino Real Suite-200, Mountain View, CA-9494-U.S.A.	System for previously encrypted information signals.
159475	01-03-1983	Manchester R & D Partnership 27-31 Emerson Drive, Papper Pike, Ohio-44124, U.S.A.	Liquid crystal display device for use with electro-optic apparatus.
165457	10-06-1986	Mannesmann A. G. F. R. Germany.	Method & apparatus for melting a metal material.
172228	28-11-1998	Do.	Apparatus for positioning a consumable electrode in a furnace.
175096	05-06-1990	Do.	An apparatus for adjusting the position of an electrode in a metal smelter.
156670	03-08-1982	Metallurgical & Engineering consultants (India) Ltd. Doranda Ranchi 834002, Bihar India.	A Fuse failure & no volt monitoring device for a 3-Phase electrical apparatus.
173546	30-03-1990	Metallgesellschaft. A.	Process of concentrating a liquid which contains sulphuric acid and water.
174447	30-07-1990	Do.	A process of cleaning the collecting surface of of dedusting electrostatic precipitators.
169539	06-07-1988	Micromedical Industries Pty Ltd., of 397 Darling street, Waleg-2041. Australia.	Portable monitor for combinedly monitoring and displaying pacemaker information and vital physiologieal sign information.
169082	29-10-1986	MWB Messwandler-Bay AG of Natanburger str, 199, D-8600 Bamberg, W. Germany	High voltage head current transformer & method of manufacturing same
171971	27-10-1988	Do.	High voltage-voltage Transformer.
175927	03-07-1990	Do.	Fiber optic device for measuring the intensity of an electric current.
176074	03-07-1990	Do.	A fiber optics device for measuring the intensity of an electric current.
165744	18-03-1987	Narendra Kumar Sharma Residing nerarby Agradoot club Brahmapura, Calcutta.	Improvement in TV signal booster.
167376	18-03-1987	Narendra Kumar Sharma P-55 Usha Park Brahmapur, Calcutta.	Improvement in power supply units of T.V. SIGNAL booster.
165457	27-02-1987	NGK Insulators Ltd., of 2-56 sudz-cho mizuo-ku nogoya city Aichi pref. Japan.	Pollution proof insulators.
175931	13-10-1989	Do.	An optical fibre composite insulator and method of producing same.
169049	16-02-1988	Nitro dobel Ab of S-710-30. Gyltorp Sweden.	A firing unit for imitiation of detonators.
172465	07-08-1989	Nico pyrotechnik hano jurgen of BEI DER FEVERWE FRC.	An impact fuse having force bone safety.

1	2	3	4
158640	16-04-83	Outokumpu OY toolonkatu 4, SF-00100 Helsinki 1, Finland.	An electric furnace intended for smelting or heating.
164790	09-12-85	RCA Corporation, USA.	Color picture tube having improved slit column pattern in shadow mask.
164838	09-12-85	Do.	Color picture tubes.
165017	26-11-85	Do.	Multibeam electron gun having a transition member & methal for manufacturing the electron gun.
165019	03-12-85	Do.	A cathode ray tube & method of making same.
165143	03-12-85	Do.	Color picture tube having shadow mask frame with truncated corners.
165335	26-11-85	Do.	Electron gun assembly with reinforcing means for cup-shaped electrode.
165336	26-11-85	Do.	Color picture tube having improved shadow mask.
165337	26-11-85	Do.	Color picture tube having improved line system.
165340	04-12-85	Do.	Color picture tubes.
166707	19-01-87	Do.	Color display system.
169013	19-08-87	Do.	A cathode ray tube.
170309	19-08-87	Do.	Cathode display system.
174872	27-02-90	RCA Corporation of 201 Washington Road, Princeton, New-jersey-08540, USA.	Switch in de power supply of television apparatus for generating our output supply voltage (+B) during both a standly made of operation & during a sun-mode of operation.
175550	05-06-90	Do.	Comparator apparatus.
175973	27-03-90	RCA Licensing corporation of 2 Independent way, P.O. Box 2023 Princeton, New-jersey-08540, USA.	An apparatus & method for manufacturing a screen assembly for a art utilizing a grid developing electrode.
176504	29-04-91	Do.	A deflection apparatus for controlling the shape & size of the beam spot formed by electron beam.
173367	17-04-89	Rotec S.A. of-40, rue Jean Jaures 93176, Bagnolet cedex, France.	A heat exchange device for protecting the poles electro-magnetic inductor.
168177	25-05-87	Sotake Engineering Co. Ltd., at 7-2, Sotokanda, 4-chomo, chiyo-da-ku-Tokyo, Japan.	Variable speed controlled induction motor.
174465	08-02-90	Siemens Ltd., of 544, Church Street, Richmond, Victoria-3121, Australia.	An inventor circuit for creating a sinusoidal wave from A D C supply.
162325	19-11-84	Societe Anonymedite stein Industrie a French Body Corporate.	Apparatus for continuously monitoring the removal of elinkar from coal fired boilers in thermal power stations.
174953	29-10-90	Thomson consumer Electronics Inc, of 600, north sherm drive Indian polis, Indiana-46201, USA.	Method of forming a shrink fit implosion protection bend for cathode ray tube.
175771	12-02-90	Do.	A television receiver.
175872	12-07-90	Do.	Video signal processing apparatus.
175967	12-03-91	Do.	An apparatus for generating a field type indicating signal in a video signal processing system.
176226	25-03-91	Do.	A solar picture tube with focus adjustment means.
169876	11-03-87	Transcom Australia Ltd. of unit-2, 30, Walter Drive Osborne-park Western Australia, 6017, Australia.	A modern for a data communication apparatus & a data communication apparatus incorporating said modern.
175780	06-04-89	United parcel service of America inc. of-51 waver street Greenwich, office park 5 Greenwich connecticut-06-836-3160, USA.	An apparatus for comoding a stream of digital signals representing on electro-optically sensed image sensed tabxel image.
163515	10-03-86	Voist Alpine Ag. A-4020, linz moldenstrabe S. Australia.	A control device for controlling constant current in resistance welding machines.
173430	21-03-89	NGK Insulators Ltd., of 2-56 sudh-cho, Aichie pref, Japan.	Lightening arrestor insulator and method of producing the same.

PATENT SEALED ON 03-09-99.

180815 181613*D 182141 182142 182143 182145 182146
 182148 182149 182152* 182153* 182154 182155 182156
 182157*D 182160*D 182161 182165* 182169* 182171 182173
 182174 182175 182176 182177* 182179* 182180 182181*
 182183* 182184* 182186 182187 182189 182190 182191
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CAL - 29, DEL - 02, MUM - 09, CHEN - 04.

*Patent shall be deemed to be endorsed with words
 LICENCE OF RIGHT Under Section 87 of the Patents Act,
 1970 from the date of expiration of three years from the date
 of sealing.

D Drug Patents

F Food Patents

REGISTRATION OF DESIGNS

The following designs have been registered. They are not
 open to inspection for a period of two years from the date
 of registration except as provided for in Section 50 of the
 Designs Act, 1911.

The date shown in the each entries is the date of the regis-
 tration included in the entries.

Class 1. No. 174756, Agco International Ltd. of P. O. Box
 No. 62 Banner Lane, Coventry, England, CV4
 9GF, "TRACTOR HOOD", 18th September 1997.

Class 1. No. 174829, Secur Industries Ltd., 4/8, Asaf Ali
 Road, New Delhi-110002, India, an Indian Com-
 pany, "MORTICE HANDLE", 6th October 1997.

Class 3. No. 174767, John Michael Fiotakis, an Australian
 citizen of 678 Sandy Bay Road, Sandy Bay Tas-
 mania 7005, Australia, "MARKER BUOY", 21st
 March 1997.

Class 3. No. 174768, Tata Telecom Limited Tatafone Divi-
 sion, an Indian company incorporated under the
 Companies Act, 1956, Bombay House, 24 Homi
 Mody Street, Fort, City of Mumbai-400001, State
 of Maharashtra, India, "TELEPHONE", 23rd Sep-
 tember '97.

Class 3. No. 174769, Kuber Aqua Minerals Limited, of 3909
 Gali Barna, Sadar Thana Road, Delhi-110006,
 India, an Indian company, "BOTTLE", 23rd Sep-
 tember 1997.

Class 3. No. 174770, Parle Agro Limited, an Indian company
 of Western Express Highway, Andheri (East),
 Mumbai 400099, State of Maharashtra, India,
 "BOTTLE", 23rd September 1997.

Class 3. No. 174806, Eskay Enterprise of 70 Saksaria Bung-
 low J. B. Nagar, Andheri (E), Mumbai-400059,
 Maharashtra, India, an Indian partnership firm,
 "TRAFFIC BARRIER-CUM-ROAD DIVIDER",
 1st October, 1997.

Class 4. No. 174758, Cartier International B. V. a Dutch com-
 pany organised and existing under the laws of the
 Netherlands of Herengracht 436, 1017 BZ Ams-
 terdam, Netherlands, "PERFUME CONTAINER",
 19th September, 1997.

Class 5. No. 174707, Prem Jairamdas Ramrakhyani alias Prem
 J. R., Indian, trading as Deep Agencies, a sole pro-
 prietorship concern of G 17, Uma Towers, Near
 Sindhi Community Hall, P. G. Road, Secundera-
 bad-500003, Andhra Pradesh, India, "BOX", 10th
 September, 1997.

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एवं प्रकाशन नियंत्रक, दिल्ली द्वारा प्रकाशित, 1999

PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, FARIDABAD,
 AND PUBLISHED BY THE CONTROLLER OF PUBLICATIONS, DELHI, 1999